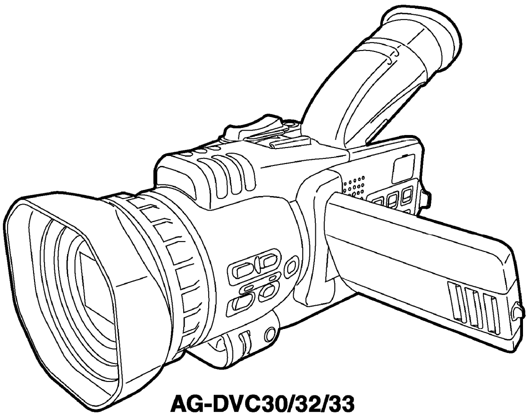
ORDER NO. BSD04030090
D21

Service Manual

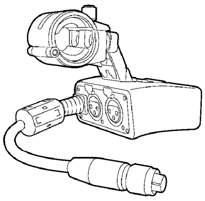
Digital Video Camera Recorder / XLR Microphone Adapter

Mini DV

AG-DVC30P / AG-DVC30E / AG-DVC32EN / AG-DVC33MC / AG-MYA30G



AG-DVC30/32/33



AG-MYA30G

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Please refer to the Operating Instructions in the appendix

folder. / (Go to Appendix List)

AG-DVC30P
Specifications

[GENERAL]

Supply voltage: DC 7.2 V/7.9 V
Power consumption:
5.0 W (when the viewfinder is used)
6.1 W (when the LCD monitor is used)
Power consumption when XLR microphone adapter (AG-MYA30G) is connected:
6.2 W (when the viewfinder is used)
7.4 W (when the LCD monitor is used)
8.5 W (maximum)

▭ indicates safety information.

Ambient operating temperature
32°F to 104°F (0°C to 40°C)
Ambient operating humidity
10% to 85% (no condensation)
Weight
2.31 lb (1.05 kg)
(excluding battery and accessories)
Dimensions (W×H×D)
4 3/8×4 5/8×10 inches (110×116×253 mm)
The height increases to 6 5/16 inches (160 mm) when the handle is attached.
Recording format
Digital video SD format
Tape format
Mini DV system
Video signals recorded
525i (NTSC)
Shooting mode
60i
Audio signals recorded
PCM digital recording
16 bits: 48 kHz/2 channels
12 bits: 32 kHz/4 channels
Recording tracks
Digital video/audio:
Helical tracks
Time code:
Helical track (sub code area)
Tape speeds
SP mode: 18.812 mm/sec.
LP mode: 12.555 mm/sec.
Recording time (when AY-DVM60 is used)
SP mode: 60 minutes
LP mode: 90 minutes
Tapes used
6.35 mm wide metal tapes
FF/REW time
Approx. 140 sec. (when AY-DVM60 is used)
Pickup devices
Interline transfer 1/4-inch CCD image senser (×3)
Number of pixels
Total number of pixels: 410,000,
Number of effective pixels: 380,000
(pixel offset system)
Lens
Leica DICOMAR optical image stabilizer lens, motorized 16× zoom,
F1.6 (f=4.1 to 65.6 mm)
(35 mm equivalent: 39.5 to 632 mm)
Color separation optical system
Prism system
ND filter
Interlocked with iris, auto ON/OFF
Gain settings
0, +3, +6, +9, +12, +15, +18 dB
Shutter speed settings
Slow shutter speeds:
1/4, 1/8, 1/15, 1/30 sec.
Regular shutter speeds:
1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro scan shutter speeds:
1/60.3 to 1/250 sec.
Minimum subject illuminance
4 lux:
F1.6, +18 dB gain, 50 IRE video output
Lens hood
Large-sized lens hood with wide angle of view
Filter diameter
43 mm
LCD monitor
3.5-inch LCD color monitor, 200,000 pixels
Viewfinder
0.44-inch, LCD color viewfinder, 180,000 pixels
Internal microphone
Stereo microphone
Internal speaker
20 mm diameter

[VIDEO]

Sampling frequency
Y: 13.5 MHz, PB/PR: 3.375 MHz
Quantizing
8 bits
Video compression system
DCT + variable-length code
Error correction
Reed-Solomon product code

[AUDIO]

Sampling frequency
48 kHz/32 kHz
Quantizing
16 bits/12 bits
Frequency response
20 Hz to 20 kHz
Wow & flutter
Below measurable limits

[CONNECTORS]

MIC
Stereo (3.5 mm diameter)
Mic sensitivity: –70 dBV
S-VIDEO IN/OUT
(input/output switched automatically)
S-connector, Y/C separate signal input/output
Y: 1.0 V [p-p], C: 0.286 V [p-p], 75 Ω
AV IN/OUT
(input/output switched automatically)
Mini jack (3.5 mm diameter)
Video:
Analog composite input/output, 1.0 V [p-p], 75 Ω
Audio (CH1, CH2):
Input: –10 dBV, high impedance
Output: –10 dBV, low impedance
XLR ADAPTER
Dedicated mini XLR connector
DC input (INPUT 7.9 V)
DC 7.9 V
PHONES
Stereo (3.5 mm diameter)
DV
4 pins, digital input/output, compliant with IEEE 1394 standard
CAM REMOTE
Mini jack (2.5 mm diameter)

[AC ADAPTER]

Power Source:
110/120/220/240 V AC, 50/60 Hz
Power Consumption:
18 W

▭ indicates safety information.

Weight
0.35 lb (0.16 kg)
Dimensions (W×H×D)
2 13/16×1 13/16×4 5/8 inches
(70×44.5×116 mm)

[OPTIONAL UNITS]

Wide conversion lens
AG-LW4307P
Stereo microphone
AG-MC15P
XLR microphone
AG-MC100G
XLR microphone adapter
AG-MYA30G
Infrared light
AG-YRL30G
Hard carrying case
AG-HT30G
Soft carrying case
AG-SC100G
Battery
CGR-D16
(1600 mAh: equivalent to accessory battery)
CGP-D28 (2800 mAh)
CGA-D54 (5400 mAh)
AC adapter kit
AG-B15 (equivalent to accessory AC cord, DC cord, AC adapter)
Cleaning tape
AY-DVMCLA

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

AG-DVC30E
Specifications

[GENERAL]

Supply voltage: DC 7.2 V/7.9 V
Power consumption:
5.0 W (when the viewfinder is used)
6.1 W (when the LCD monitor is used)
Power consumption when XLR microphone adapter (AG-MYA30G) is connected:
6.2 W (when the viewfinder is used)
7.4 W (when the LCD monitor is used)
8.5 W (maximum)

☐ indicates safety information.

Ambient operating temperature
0°C to 40°C
Ambient operating humidity
10% to 85% (no condensation)
Weight
1.05 kg
(excluding battery and accessories)
Dimensions (W×H×D)
110×116×253 mm
The height increases to 160 mm when the handle is attached.
Recording format
Digital video SD format
Tape format
Mini DV system
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625i (PAL)
Shooting mode
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Audio signals recorded
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16 bits: 48 kHz/2 channels
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Recording tracks
Digital video/audio:
Helical tracks
Time code:
Helical track (sub code area)
Tape speeds
SP mode: 18.831 mm/sec.
LP mode: 12.568 mm/sec.
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Tapes used
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FF/REW time
Approx. 140 sec. (when AY-DVM60 is used)
Pickup devices
Interline transfer 1/4-inch CCD image senser (×3)
Number of pixels
Total number of pixels: 470,000,
Number of effective pixels: 440,000
(pixel offset system)
Lens
Leica DICOMAR optical image stabilizer lens, motorized 16× zoom, F1.6 (f=4.1 to 65.6 mm)
(35 mm equivalent: 39.5 to 632 mm)
Colour separation optical system
Prism system
ND filter
Interlocked with iris, ON/OFF switched automatically
Gain settings
0, +3, +6, +9, +12, +15, +18 dB
Shutter speed settings
Slow shutter speeds:
1/3, 1/6, 1/12, 1/25 sec.
Regular shutter speeds:
1/50, 1/60, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro scan shutter speeds:
1/50.2 to 1/248 sec.
Minimum subject illuminance
4 lux:
F1.6, +18 dB gain, 50% video output
Lens hood
Large-sized lens hood with wide angle of view
Filter diameter
43 mm
LCD monitor
3.5-inch LCD colour monitor, 200,000 pixels
Viewfinder
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Internal microphone
Stereo microphone
Internal speaker
20 mm diameter

[VIDEO]

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8 bits
Video compression system
DCT + variable-length code
Error correction
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[AUDIO]

Sampling frequency
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Wow & flutter
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[CONNECTORS]

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(input/output switched automatically)
S-connector, Y/C separate signal input/output
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AV IN/OUT
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Mini jack (3.5 mm diameter)
Video:
Analogue composite input/output, 1.0 V [p-p], 75 Ω
Audio (CH1, CH2):
Input: –10 dBV, high impedance
Output: –10 dBV, low impedance
XLR ADAPTER
Dedicated mini XLR connector
DC input (INPUT 7.9 V)
DC 7.9 V
PHONES
Stereo (3.5 mm diameter)
DV
4 pins, digital input/output, compliant with IEEE 1394 standard
CAM REMOTE
Mini jack (2.5 mm diameter)

[AC ADAPTER]

Input:
100 – 240 V AC, 50/60 Hz, 20 W
Output:
Video camera: DC 7.9 V, 1.4 A (max.)
Charge: DC 8.4 V, 1.2 A

☐ indicates safety information.

Weight
0.16 kg
Dimensions (W×H×D)
70×44.5×116 mm

[OPTIONAL UNITS]

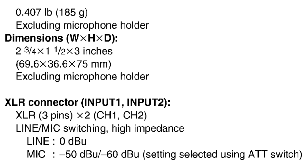
Wide conversion lens
AG-LW4307P
Stereo microphone
AG-MC15P
XLR microphone
AG-MC100G
XLR microphone adapter
AG-MYA30G
Infrared light
AG-YRL30G
Hard carrying case
AG-HT30G
Soft carrying case
AG-SC100G
Battery
CGR-D16S
(1600 mAh: equivalent to accessory battery)
CGP-D28S (2800 mAh)
CGA-D54S (5400 mAh)
AC adapter kit
AG-B15E (equivalent to accessory AC cord, DC cord, AC adapter)
Cleaning tape
AY-DVMCLC

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

AG-MYA30G

Specifications

Ambient operating temperature:
32°F to 104°F (0°C to +40°C)
Ambient operating humidity:
10% to 85% (no condensation)
Weight:
0.407 lb (185 g)



0.407 lb (185 g)
Excluding microphone holder
Dimensions (W×H×D):
2 3/4×1 1/2×3 inches
(69.6×36.6×75 mm)
Excluding microphone holder

XLR connector (INPUT1, INPUT2):
XLR (3 pins) ×2 (CH1, CH2)
LINE/MIC switching, high impedance
LINE : 0 dBu
MIC : –50 dBu/–60 dBu (setting selected using ATT switch)

SAFETY PRECAUTIONS

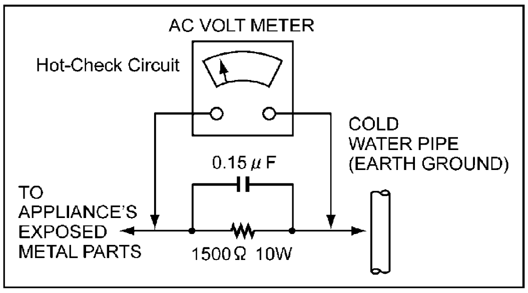
GENERAL GUIDELINES

1. **When servicing, observe the original lead dress. If a short / circuit is found, replace all parts, which have been over-heated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

LEAKAGE CURRENT COLD CHECK

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5M Ω .**

Figure1



LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. **Plug the AC cord directly into the AC outlet. / Do not use an isolation transformer for this check.**

2. Connect a 1.5kΩ, 10W resistor, in parallel with a 0.15 μF capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverses the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of Pbf PCB:
PCBs (manufactured) using lead free solder will have a PbF indication on the PCB.

Caution:

1. Pb free solder has a higher melting point than standard solder; Typically the melting point is 50-70°F (30-40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700±20°F (370±10°C).
2. Pb free solder will tend to splash when heated too high (about 1100°F /600°C).

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical

ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. / Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device classified as “anti-static” can generate electrical charges sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. / (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed. / CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.**
8. **Minimize bodily motions when handling unpacked replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage**

an ES device).

X-RADIATION

WARNING

1. **The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.**
2. **When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.**

Note :
It is important to use an accurate periodically calibrated high voltage meter.

3. **Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ± 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.**

AG-DVC30P

IMPORTANT

"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

FCC Note:

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning:

To assure continued FCC emission limit compliance, the user must use only shielded interface cable when connecting to external units. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate it.

CAUTION:

Danger of explosion or fire if battery is mistreated.

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 140°F (60°C).
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

Notice (U.S.A.only):

This product has a fluorescent lamp that contains a small amount of mercury.
It also contains lead in some components.
Disposal of these materials may be regulated in your community due to environmental considerations.
For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance:
<http://www.eiae.org.>

Camera-Recorder

- The rating plate is on the underside of the Camera-Recorder

AC Adapter

- The rating plate is on the underside of the AC Adapter.
- Disconnect the AC mains plug from the AC mains socket when not in use.

▭ indicates safety information.

AG-DVC30E

Caution for AC Mains Lead

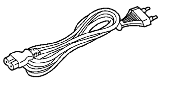
FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

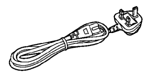
FOR CONTINENTAL EUROPE, ETC.

Not to be used in the U.K.



FOR U.K. ONLY

If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.



FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

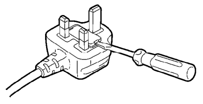
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

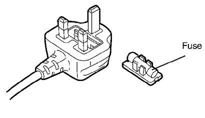
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
- Under no circumstances shoul either of these wires be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ .

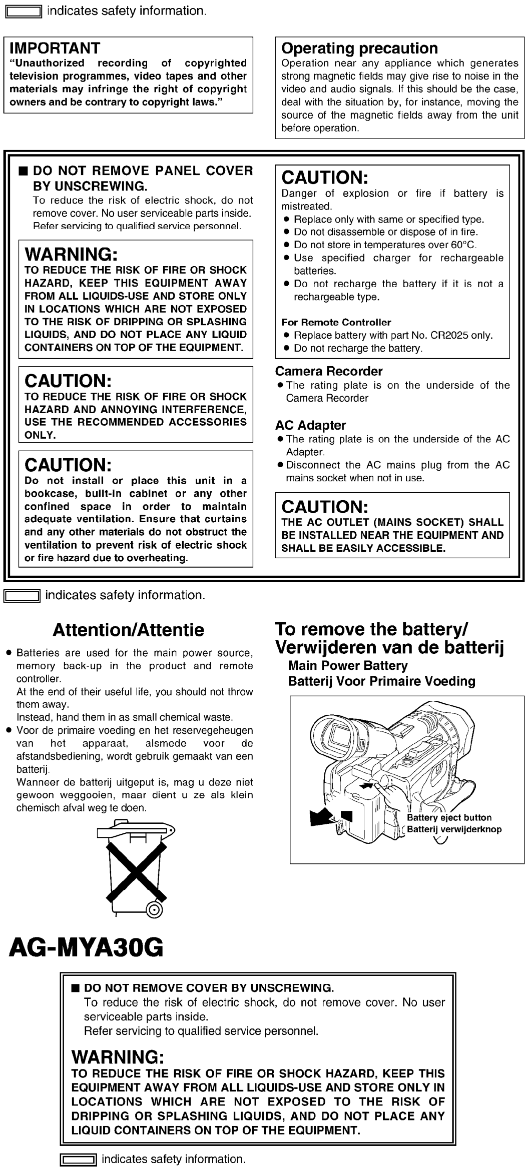
How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.





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Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

■ **DO NOT REMOVE PANEL COVER BY UNSCREWING.**

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

Danger of explosion or fire if battery is mistreated.

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C.
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

Camera Recorder

- The rating plate is on the underside of the Camera Recorder

AC Adapter

- The rating plate is on the underside of the AC Adapter.
- Disconnect the AC mains plug from the AC mains socket when not in use.

CAUTION:

THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

▭ indicates safety information.

Attention/Attentie

- Batteries are used for the main power source, memory back-up in the product and remote controller.
  At the end of their useful life, you should not throw them away.
  Instead, hand them in as small chemical waste.
- Voor de primaire voeding en het reservegeheugen van het apparaat, alsmede voor de afstandsbediening, wordt gebruik gemaakt van een batterij.
  Wanneer de batterij uitgeput is, mag u deze niet gewoon weggooien, maar dient u ze als klein chemisch afval weg te doen.

**To remove the battery/
Verwijderen van de batterij**

Main Power Battery

Batterij Voor Primaire Voeding

AG-MYA30G

■ **DO NOT REMOVE COVER BY UNSCREWING.**

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside.
Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

▭ indicates safety information.

1. Service Information

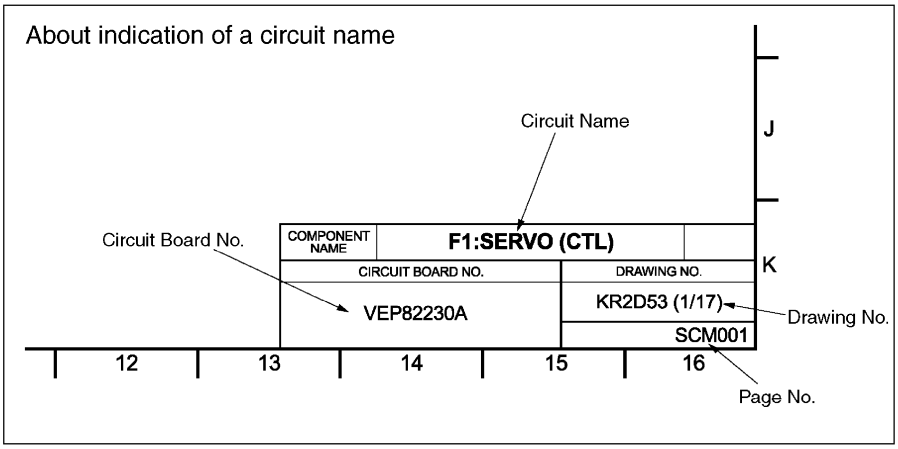
2. Disassembly Procedures

3. Mechanical Adjustment

4. Electrical Adjustment

5. Block Diagrams

6. Schematic Diagrams


About indication of a circuit name
Circuit Name
J
Circuit Board No.
COMPONENT NAME
F1:SERVO (CTL)
CIRCUIT BOARD NO.
DRAWING NO.
K
VEP82230A
KR2D53 (1/17)
Drawing No.
SCM001
12
13
14
15
16
Page No.

NOTE
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST.

CAUTION
THE ☐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. / PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REP
SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. / WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

6.1. AG-DVC30/32/33

6.1.1. INTERCONNECTION

6.1.2. VTR (VEP03G60A/B)

6.1.3. CAMERA (VEP23598A/B)

6.1.4. POWER (VEP01952A)

6.1.5. R SIDE (VEP06F68A)

6.1.6. CAMERA OP (VEP06F64A)

6.1.7. MENU FPC (VEP001G2A)

6.1.8. FRONT (VEP06F67A)

6.1.9. MF FPC (VEP001E2A)

6.1.10. SIDE JACK FPC (VEP04861A)

6.1.11. REAR JACK (VEP04863A)

6.1.12. BATTERY (VEP01953A)

6.1.13. ZOOM FPC (VEP06F66A)

6.1.14. ZOOM CON (VEP001E3A)

6.1.15. EVF CON (VEP001E0A)

6.1.16. MIC (VEP04828A)

6.1.17. MONITOR (VEP26257B)

6.1.18. EVF A (VEP28272B), EVF B (VEP28275B), LCD OPEN(VEP001E1A), CAS OPEN (VEP001E5A)

6.1.19. TALLY (VEP001E4A), SUB REC (VEP001G1A), DC IN (VEP01957A)

6.2. AG-MYA30G

6.2.1. XLR (VEP04869A)

6.2.2. SW (VEP04870A)

6.2.3. MAIN (VEP04875A)

6.2.4. POWER (VEP01956A)

6.2.5. VR (VEP04871A)

7. Circuit Board Diagrams

NOTE
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST.

CAUTION
THE ☐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. / PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REP
SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. / WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

7.1. VTR C.B.A. (NTSC model: VEP03G60A) (PAL model: VEP03G60B)

7.2. CAMERA C.B.A. (NTSC model: VEP23598A) (PAL model: VEP23598B)

7.3. POWER C.B.A. (VEP01952A)

8. Mechanical Replacement Parts List & Exploded Views

NOTE:

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ μ F.**
3. **The P.C. Board unit marked with " ■ " shown below the main assembled parts.**
4. **The parts marked with Ⓔ on the exploded view show the electric parts.**
5. **IMPORTANT SAFETY NOTICE**
   Components identified with the mark ⚠ have the special characteristics for safety. When re
   any of these components, use only the same type.
6. **The marking (RTL) indicates the retention time is limited for this item. / After the discontinuati**
   assembly in production, it will no longer be available.
7. **“(M)” in Remark column indicates needed in the periodical maintenance.**

9. Electrical Replacement Parts List

NOTE:

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ μ F.**
3. **The P.C. Board unit marked with " ■ " shown below the main assembled parts.**
4. **The parts marked with Ⓔ on the exploded view show the electric parts.**
5. **IMPORTANT SAFETY NOTICE**
   Components identified with the mark ⚠ have the special characteristics for safety. When re
   any of these components, use only the same type.
6. **The marking (RTL) indicates the retention time is limited for this item. / After the discontinuati**
   assembly in production, it will no longer be available.
7. **“(M)” in Remark column indicates needed in the periodical maintenance.**

NOTE:

A list of parts is stored in data form in the CD-ROM. It is located within the folder APPENDIX/PARTS. Please use as necessary.

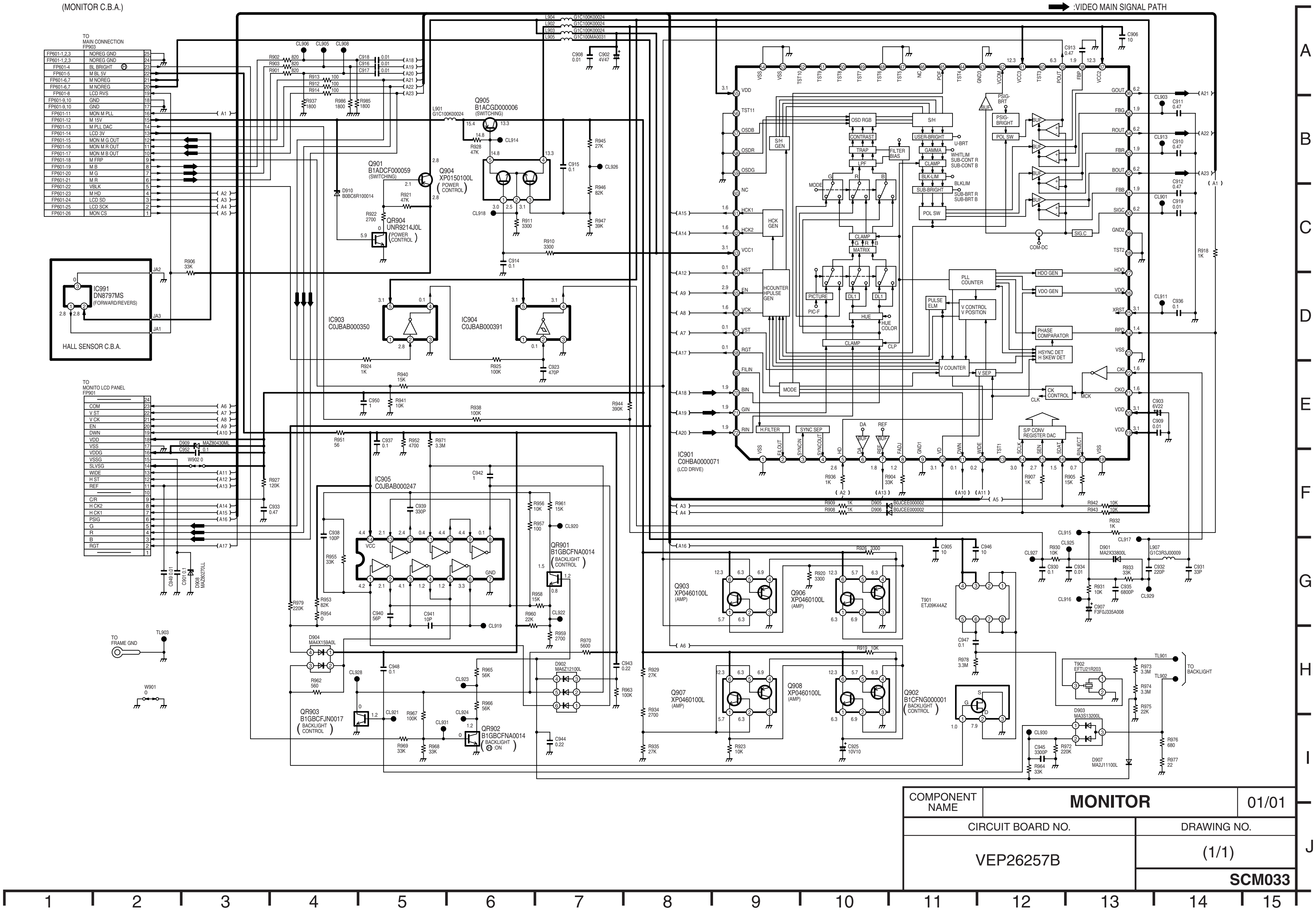
10. PDF for Printing

The PDF documents for printing consist of several files per section.Open every section (file) through a link (blue frame) on the cover.

● Setting of Acrobat Reader

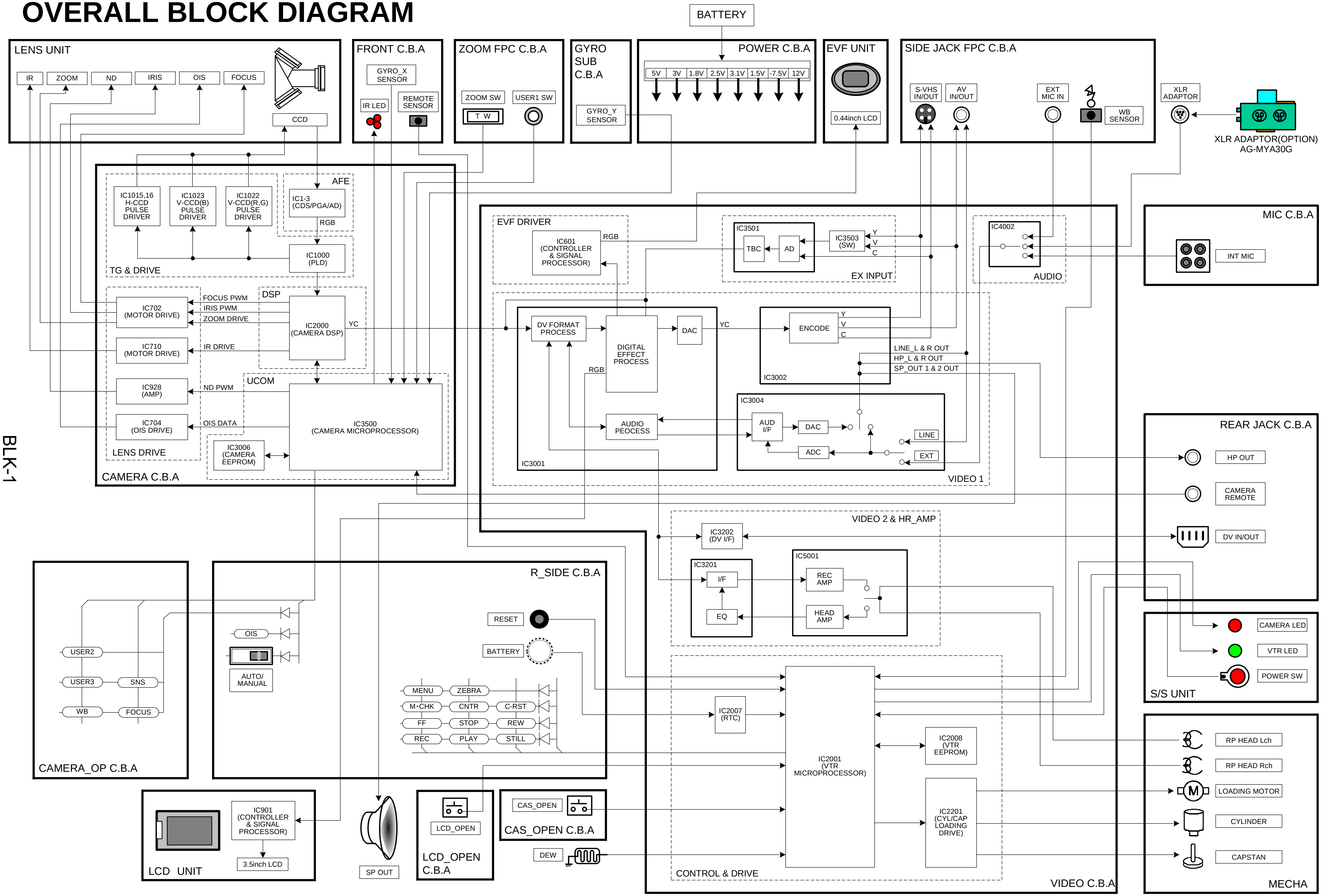
To view a link in a new window, follow the procedure below. When you operate the PDF documen printing, you can open a PDF file of each section while displaying the cover page. This is conveni view the PDF files in several sections.

<How to set> In the [File] menu, select [Preference] - [General...] and disable [Open Cross-Doc Lir Same Window].

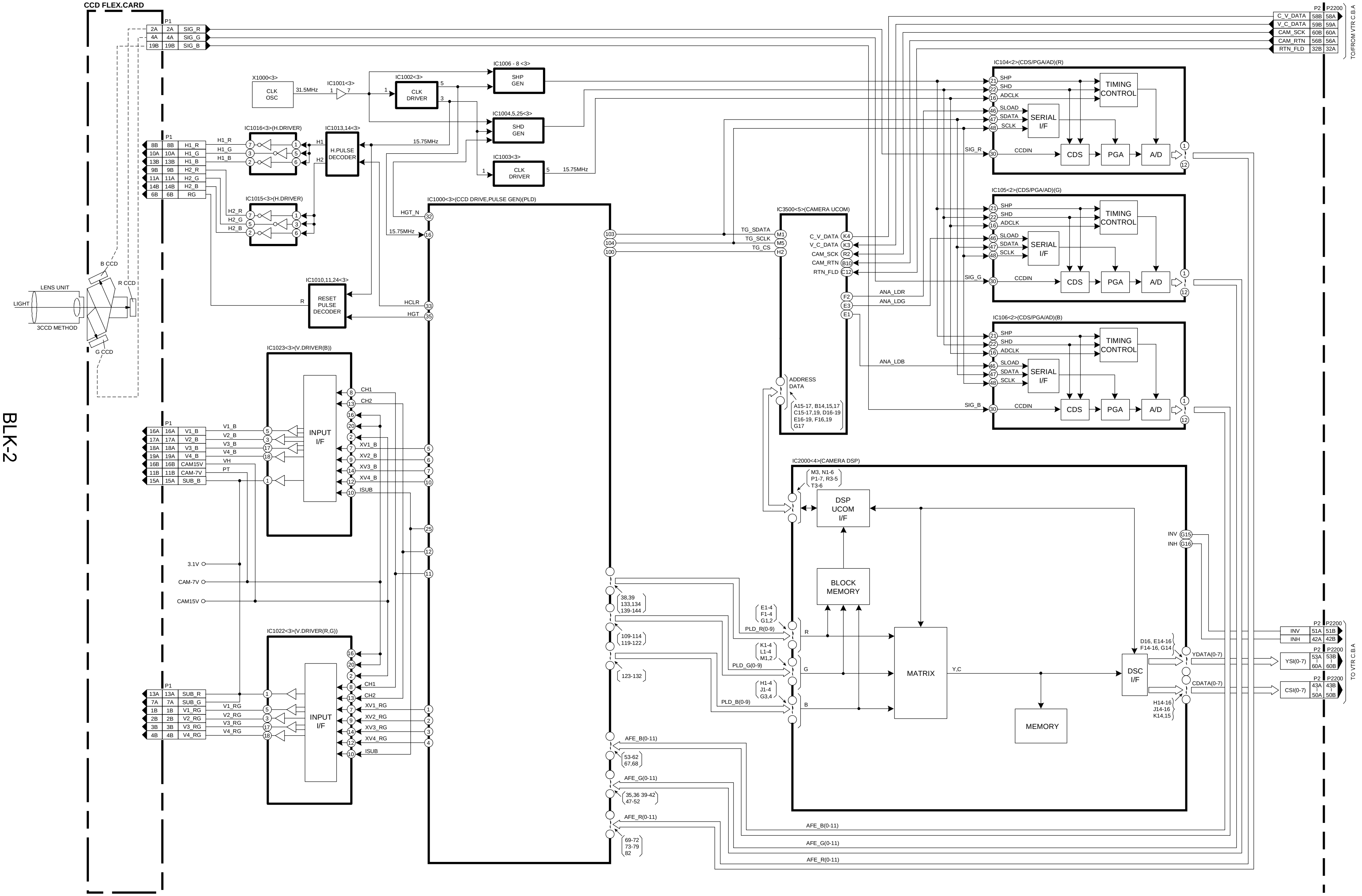

(MONITOR C.B.A.)
:VIDEO MAIN SIGNAL PATH
TO MAIN CONNECTION FP903
FP601-1,2,3 NOREG GND 25
FP601-1,2,3 NOREG GND 24
FP601-4 BL BRIGHT 23
FP601-5 M BL 5V 22
FP601-6,7 M NOREG 21
FP601-6,7 M NOREG 20
FP601-8 LCD RVS 19
FP601-9,10 GND 18
FP601-9,10 GND 17
FP601-11 MON M PLL 16
FP601-12 M 15V 15
FP601-13 M PLL DAC 14
FP601-14 LCD 3V 13
FP601-15 MON M G OUT 12
FP601-16 MON M R OUT 11
FP601-17 MON M B OUT 10
FP601-18 M FRP 9
FP601-19 M B 8
FP601-20 M G 7
FP601-21 M R 6
FP601-22 VBLK 5
FP601-23 M HD 4
FP601-24 LCD SD 3
FP601-25 LCD SCK 2
FP601-26 MON CS 1
IC991 DN8797MS (FORWARD/REVERS)
HALL SENSOR C.B.A.
TO MONITO LCD PANEL FP901
COM 23
V ST 22
V CK 21
EN 20
DWN 19
VDD 18
VSS 17
VDDG 16
VSSG 15
SLVSG 14
WIDE 13
H ST 12
REF 11
C/R 9
H CK2 8
H CK1 7
PSIG 6
G 5
R 4
B 3
RGT 2
TO FRAME GND
TL903
W901 0
Q905 B1ACGD000006 (SWITCHING)
Q901 B1ADCF000059 (SWITCHING)
Q904 XP0150100L (POWER CONTROL)
QR904 UNR9214J0L (POWER CONTROL)
D910 B0BC6R100014
IC903 C0JBAB000350
IC904 C0JBAB000391
IC905 C0JBAB000247
QR901 B1GBCFNA0014 (BACKLIGHT CONTROL)
QR903 B1GBCFJN0017 (BACKLIGHT CONTROL)
QR902 B1GBCFNA0014 (BACKLIGHT ON)
D904 MA4X159A0L
D902 MA6Z12100L
D909 MAZ80430ML
D908 MAZ80270LL
IC901 C0HBA0000071 (LCD DRIVE)
OSD RGB
S/H
CONTRAST
TRAP
LPF
FILTER BIAS
USER-BRIGHT
GAMMA
CLAMP
BLK-LIM
SUB-BRIGHT
POL SW
PSIG-BRIGHT
MATRIX
HUE
PICTURE
DL1
HCK GEN
S/H GEN
HCOUNTER HPULSE GEN
PLL COUNTER
PULSE ELM
V CONTROL V POSITION
HDO GEN
VDO GEN
PHASE COMPARATOR
HSYNC DET H SKEW DET
V COUNTER
V SEP
CK CONTROL
MODE
H.FILTER
SYNC SEP
S/P CONV REGISTER DAC
SIG.C
COM-DC
Q903 XP0460100L (AMP)
Q906 XP0460100L (AMP)
Q907 XP0460100L (AMP)
Q908 XP0460100L (AMP)
Q902 B1CFNG000001 (BACKLIGHT CONTROL)
T901 ETJ09K44AZ
T902 EFTU21R203
D901 MA2X33800L
D903 MA3S13200L
D907 MA2J11100L
L907 G1C3R3J00009
L901 G1C100K00024
L902 G1C100K00024
L903 G1C100K00024
L904 G1C100K00024
L905 G1C100MA0031
TL901
TL902
TO BACKLIGHT
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	MONITOR	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP26257B		(1/1)
		SCM033

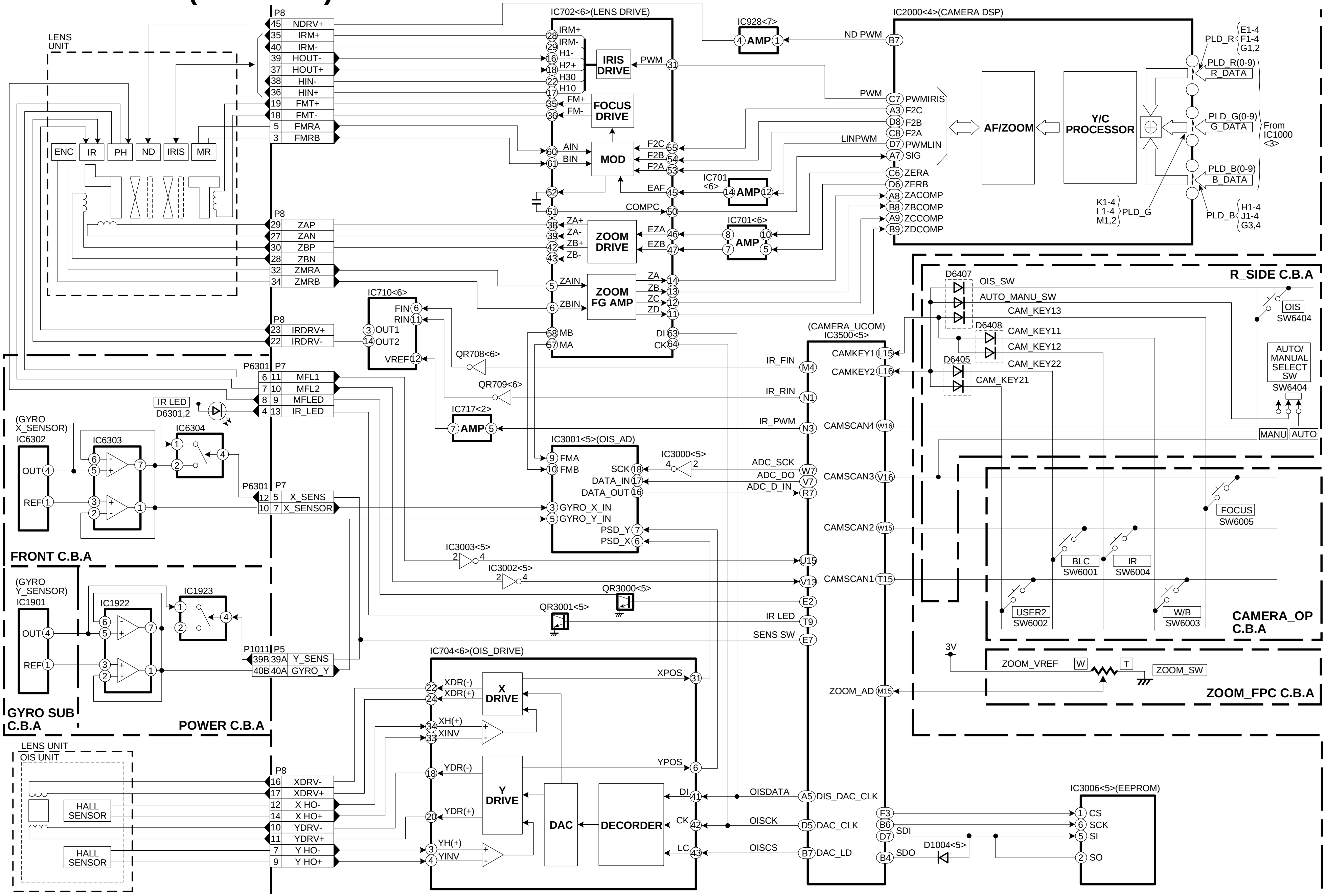
OVERALL BLOCK DIAGRAM


BATTERY
LENS UNIT
IR
ZOOM
ND
IRIS
OIS
FOCUS
CCD
FRONT C.B.A
GYRO_X SENSOR
IR LED
REMOTE SENSOR
ZOOM FPC C.B.A
ZOOM SW
USER1 SW
T W
GYRO SUB C.B.A
GYRO_Y SENSOR
POWER C.B.A
5V
3V
1.8V
2.5V
3.1V
1.5V
-7.5V
12V
EVF UNIT
0.44inch LCD
SIDE JACK FPC C.B.A
S-VHS IN/OUT
AV IN/OUT
EXT MIC IN
WB SENSOR
XLR ADAPTOR
XLR ADAPTOR(OPTION) AG-MYA30G
CAMERA C.B.A
TG & DRIVE
IC1015,16 H-CCD PULSE DRIVER
IC1023 V-CCD(B) PULSE DRIVER
IC1022 V-CCD(R,G) PULSE DRIVER
AFE
IC1-3 (CDS/PGA/AD)
RGB
IC1000 (PLD)
DSP
IC2000 (CAMERA DSP)
YC
LENS DRIVE
IC702 (MOTOR DRIVE)
FOCUS PWM
IRIS PWM
ZOOM DRIVE
IC710 (MOTOR DRIVE)
IR DRIVE
IC928 (AMP)
ND PWM
IC704 (OIS DRIVE)
OIS DATA
UCOM
IC3500 (CAMERA MICROPROCESSOR)
IC3006 (CAMERA EEPROM)
EVF DRIVER
IC601 (CONTROLLER & SIGNAL PROCESSOR)
RGB
EX INPUT
IC3501
TBC
AD
IC3503 (SW)
Y
V
C
AUDIO
IC4002
MIC C.B.A
INT MIC
VIDEO 1
IC3001
DV FORMAT PROCESS
DIGITAL EFFECT PROCESS
RGB
DAC
YC
AUDIO PEOCESS
IC3002
ENCODE
Y
V
C
LINE_L & R OUT
HP_L & R OUT
SP_OUT 1 & 2 OUT
IC3004
AUD I/F
DAC
ADC
LINE
EXT
REAR JACK C.B.A
HP OUT
CAMERA REMOTE
DV IN/OUT
VIDEO 2 & HR_AMP
IC3202 (DV I/F)
IC3201
I/F
EQ
IC5001
REC AMP
HEAD AMP
S/S UNIT
CAMERA LED
VTR LED
POWER SW
CAMERA_OP C.B.A
USER2
USER3
SNS
WB
FOCUS
R_SIDE C.B.A
OIS
AUTO/ MANUAL
RESET
BATTERY
MENU
ZEBRA
M•CHK
CNTR
C-RST
FF
STOP
REW
REC
PLAY
STILL
CONTROL & DRIVE
IC2007 (RTC)
IC2001 (VTR MICROPROCESSOR)
IC2008 (VTR EEPROM)
IC2201 (CYL/CAP LOADING DRIVE)
MECHA
RP HEAD Lch
RP HEAD Rch
M
LOADING MOTOR
CYLINDER
CAPSTAN
VIDEO C.B.A
LCD UNIT
IC901 (CONTROLLER & SIGNAL PROCESSOR)
3.5inch LCD
SP OUT
LCD_OPEN
LCD_OPEN C.B.A
CAS_OPEN
CAS_OPEN C.B.A
DEW

SENSOR/PROCESS(CAMERA) BLOCK DIAGRAM

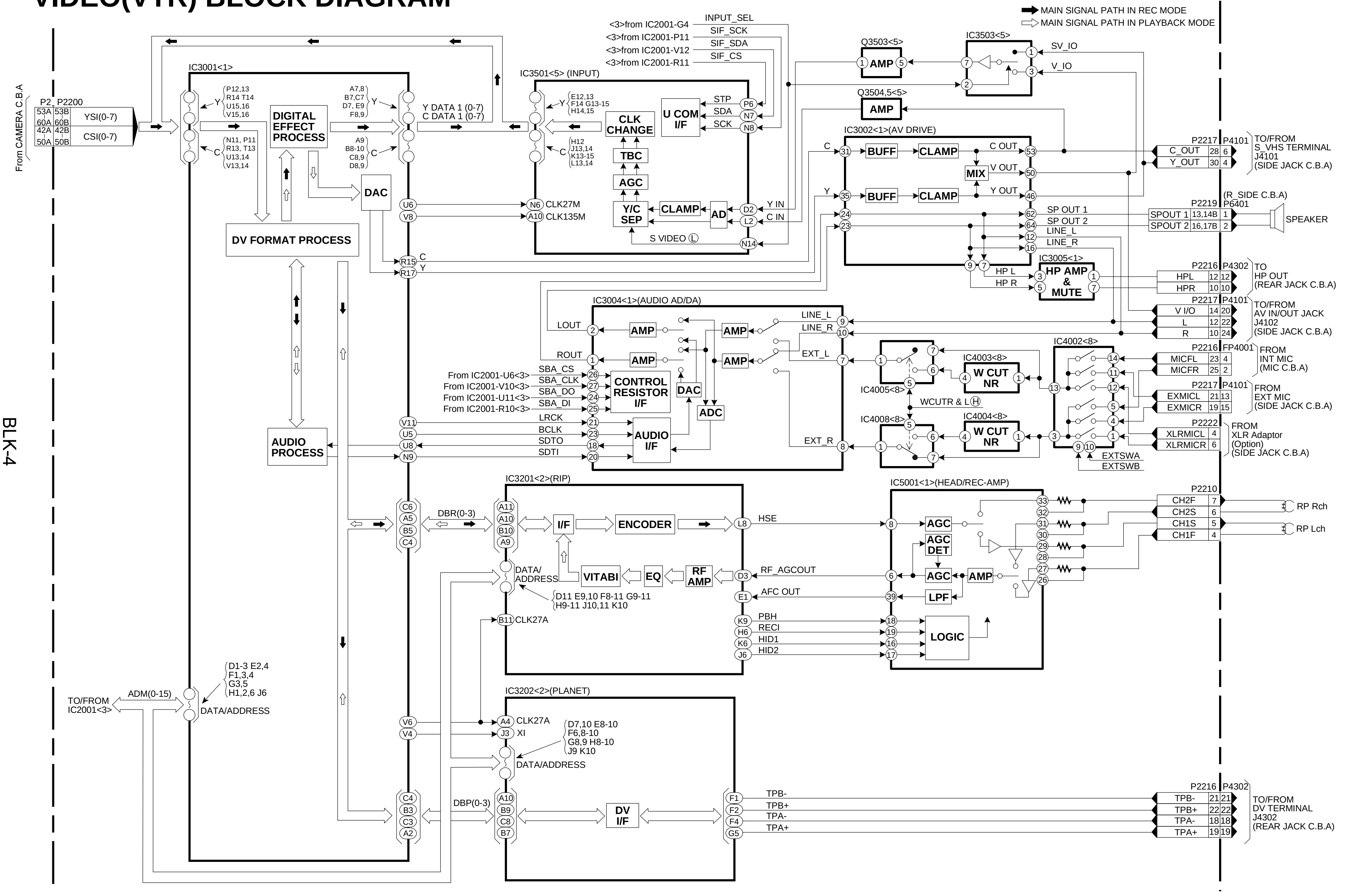

CCD FLEX.CARD
P1
SIG_R
SIG_G
SIG_B
H1_R
H1_G
H1_B
H2_R
H2_G
H2_B
RG
X1000<3>
CLK OSC
31.5MHz
IC1001<3>
IC1002<3>
CLK DRIVER
IC1006 - 8 <3>
SHP GEN
IC1004,5,25<3>
SHD GEN
IC1003<3>
CLK DRIVER
15.75MHz
IC1016<3>(H.DRIVER)
IC1013,14<3>
H.PULSE DECODER
IC1015<3>(H.DRIVER)
IC1010,11,24<3>
RESET PULSE DECODER
IC1000<3>(CCD DRIVE,PULSE GEN)(PLD)
HGT_N
HCLR
HGT
LENS UNIT
LIGHT
3CCD METHOD
B CCD
R CCD
G CCD
IC1023<3>(V.DRIVER(B))
INPUT I/F
V1_B
V2_B
V3_B
V4_B
CAM15V
CAM-7V
SUB_B
VH
PT
CH1
CH2
XV1_B
XV2_B
XV3_B
XV4_B
ISUB
3.1V
CAM-7V
CAM15V
IC1022<3>(V.DRIVER(R,G))
SUB_R
SUB_G
V1_RG
V2_RG
V3_RG
V4_RG
XV1_RG
XV2_RG
XV3_RG
XV4_RG
IC3500<5>(CAMERA UCOM)
TG_SDATA
TG_SCLK
TG_CS
C_V_DATA
V_C_DATA
CAM_SCK
CAM_RTN
RTN_FLD
ANA_LDR
ANA_LDG
ANA_LDB
ADDRESS DATA
A15-17, B14,15,17 C15-17,19, D16-19 E16-19, F16,19 G17
IC104<2>(CDS/PGA/AD)(R)
IC105<2>(CDS/PGA/AD)(G)
IC106<2>(CDS/PGA/AD)(B)
SHP
SHD
ADCLK
SLOAD
SDATA
SCLK
TIMING CONTROL
SERIAL I/F
SIG_R
SIG_G
SIG_B
CCDIN
CDS
PGA
A/D
P2
P2200
TO/FROM VTR C.B.A
IC2000<4>(CAMERA DSP)
M3, N1-6 P1-7, R3-5 T3-6
DSP UCOM I/F
BLOCK MEMORY
MATRIX
Y,C
MEMORY
DSC I/F
INV
INH
YDATA(0-7)
CDATA(0-7)
YSI(0-7)
CSI(0-7)
D16, E14-16 F14-16, G14
H14-16 J14-16 K14,15
E1-4 F1-4 G1,2
K1-4 L1-4 M1,2
H1-4 J1-4 G3,4
PLD_R(0-9)
PLD_G(0-9)
PLD_B(0-9)
R
G
B
38,39 133,134 139-144
109-114 119-122
123-132
AFE_B(0-11)
53-62 67,68
AFE_G(0-11)
35,36 39-42 47-52
AFE_R(0-11)
69-72 73-79 82
TO VTR C.B.A

LENS DRIVE(CAMERA) BLOCK DIAGRAM

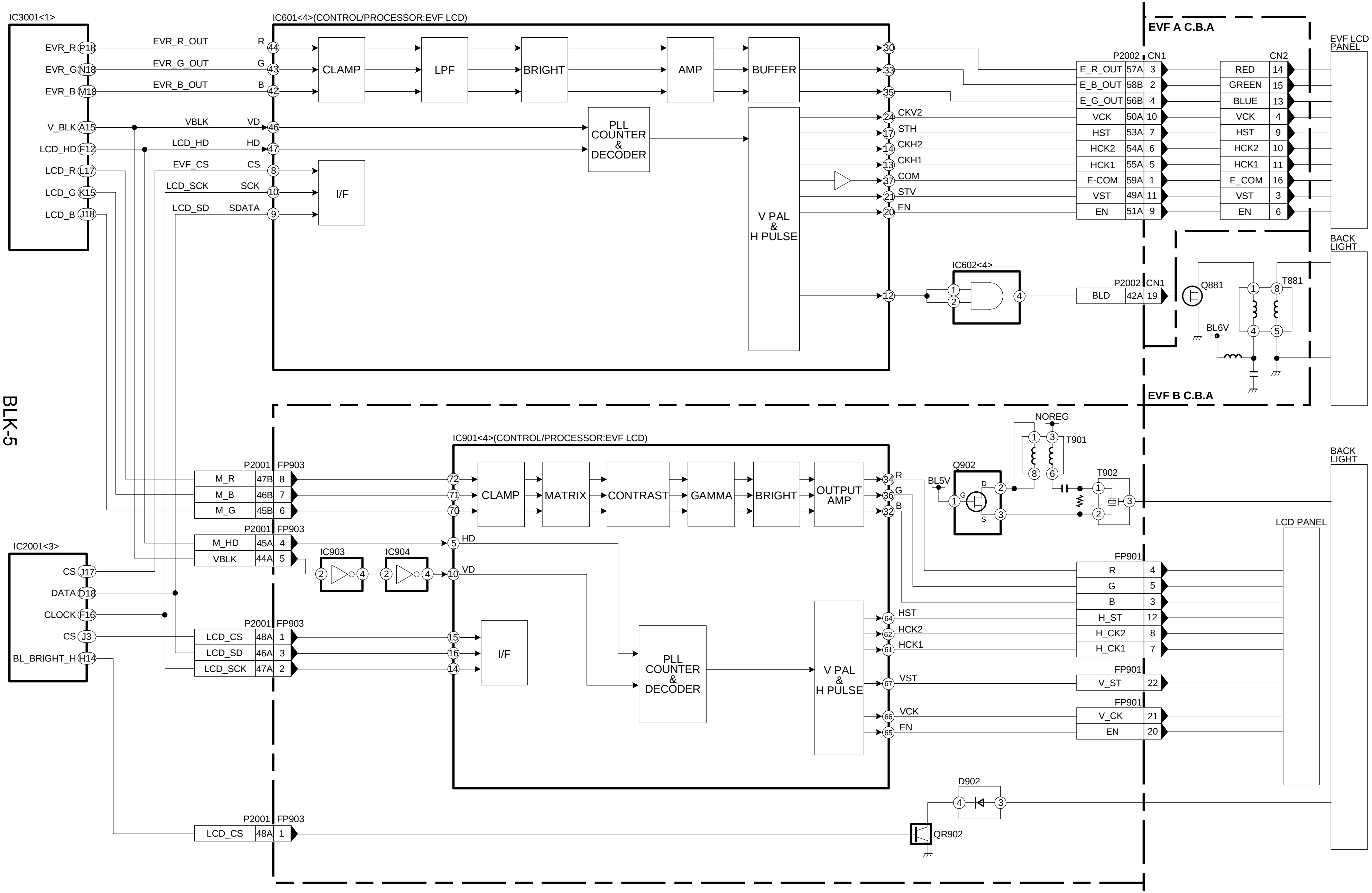


LENS UNIT
ENC
IR
PH
ND
IRIS
MR
P8
45 NDRV+
35 IRM+
40 IRM-
39 HOUT-
37 HOUT+
38 HIN-
36 HIN+
19 FMT+
18 FMT-
5 FMRA
3 FMRB
29 ZAP
27 ZAN
30 ZBP
28 ZBN
32 ZMRA
34 ZMRB
23 IRDRV+
22 IRDRV-
IC702<6>(LENS DRIVE)
IRM+
IRM-
H1-
H2+
H30
H10
IRIS DRIVE
PWM
FM+
FM-
FOCUS DRIVE
AIN
BIN
MOD
F2C
F2B
F2A
EAF
COMPC
ZA+
ZA-
ZB+
ZB-
ZOOM DRIVE
EZA
EZB
ZAIN
ZBIN
ZOOM FG AMP
ZA
ZB
ZC
ZD
MB
MA
DI
CK
IC928<7>
AMP
ND PWM
IC701<6>
AMP
IC2000<4>(CAMERA DSP)
B7
C7 PWMIRIS
A3 F2C
D8 F2B
C8 F2A
D7 PWMLIN
A7 SIG
C6 ZERA
D6 ZERB
A8 ZACOMP
B8 ZBCOMP
A9 ZCCOMP
B9 ZDCOMP
PWM
LINPWM
AF/ZOOM
Y/C PROCESSOR
PLD_R
E1-4
F1-4
G1,2
PLD_R(0-9)
R_DATA
PLD_G(0-9)
G_DATA
PLD_B(0-9)
B_DATA
From IC1000 <3>
K1-4
L1-4
M1,2
PLD_G
PLD_B
H1-4
J1-4
G3,4
IC710<6>
FIN
RIN
OUT1
OUT2
VREF
QR708<6>
QR709<6>
IC717<2>
AMP
P6301
P7
6 11 MFL1
7 10 MFL2
8 9 MFLED
4 13 IR_LED
IR LED
D6301,2
(GYRO X_SENSOR)
IC6302
OUT
REF
IC6303
IC6304
P6301
P7
12 5 X_SENS
10 7 X_SENSOR
FRONT C.B.A
(GYRO Y_SENSOR)
IC1901
OUT
REF
IC1922
IC1923
P1011
P5
39B 39A Y_SENS
40B 40A GYRO_Y
GYRO SUB C.B.A
POWER C.B.A
IC3001<5>(OIS_AD)
FMA
FMB
SCK
DATA_IN
DATA_OUT
GYRO_X_IN
GYRO_Y_IN
PSD_Y
PSD_X
IC3000<5>
ADC_SCK
ADC_DO
ADC_D_IN
IC3003<5>
IC3002<5>
QR3000<5>
QR3001<5>
IR_FIN
IR_RIN
IR_PWM
IR LED
SENS SW
(CAMERA_UCOM)
IC3500<5>
CAMKEY1 L15
CAMKEY2 L16
M4
N1
N3
CAMSCAN4 W16
W7
V7
R7
CAMSCAN3 V16
CAMSCAN2 W15
U15
V13
CAMSCAN1 T15
E2
T9
E7
ZOOM_AD M15
R_SIDE C.B.A
D6407
OIS_SW
AUTO_MANU_SW
CAM_KEY13
D6408
CAM_KEY11
CAM_KEY12
D6405
CAM_KEY22
CAM_KEY21
OIS
SW6404
AUTO/ MANUAL SELECT SW
SW6404
MANU
AUTO
FOCUS
SW6005
BLC
SW6001
IR
SW6004
USER2
SW6002
W/B
SW6003
CAMERA_OP C.B.A
3V
ZOOM_VREF
W
T
ZOOM_SW
ZOOM_FPC C.B.A
IC704<6>(OIS_DRIVE)
XDR(-)
XDR(+)
X DRIVE
XH(+)
XINV
XPOS
YDR(-)
YDR(+)
Y DRIVE
YPOS
YH(+)
YINV
DAC
DECORDER
DI
CK
LC
OISDATA
OISCK
OISCS
A5 DIS_DAC_CLK
D5 DAC_CLK
B7 DAC_LD
LENS UNIT
OIS UNIT
HALL SENSOR
HALL SENSOR
P8
16 XDRV-
17 XDRV+
12 X HO-
14 X HO+
10 YDRV-
11 YDRV+
7 Y HO-
9 Y HO+
IC3006<5>(EEPROM)
F3
B6
D7
B4
SDI
SDO
D1004<5>
CS
SCK
SI
SO

VIDEO(VTR) BLOCK DIAGRAM

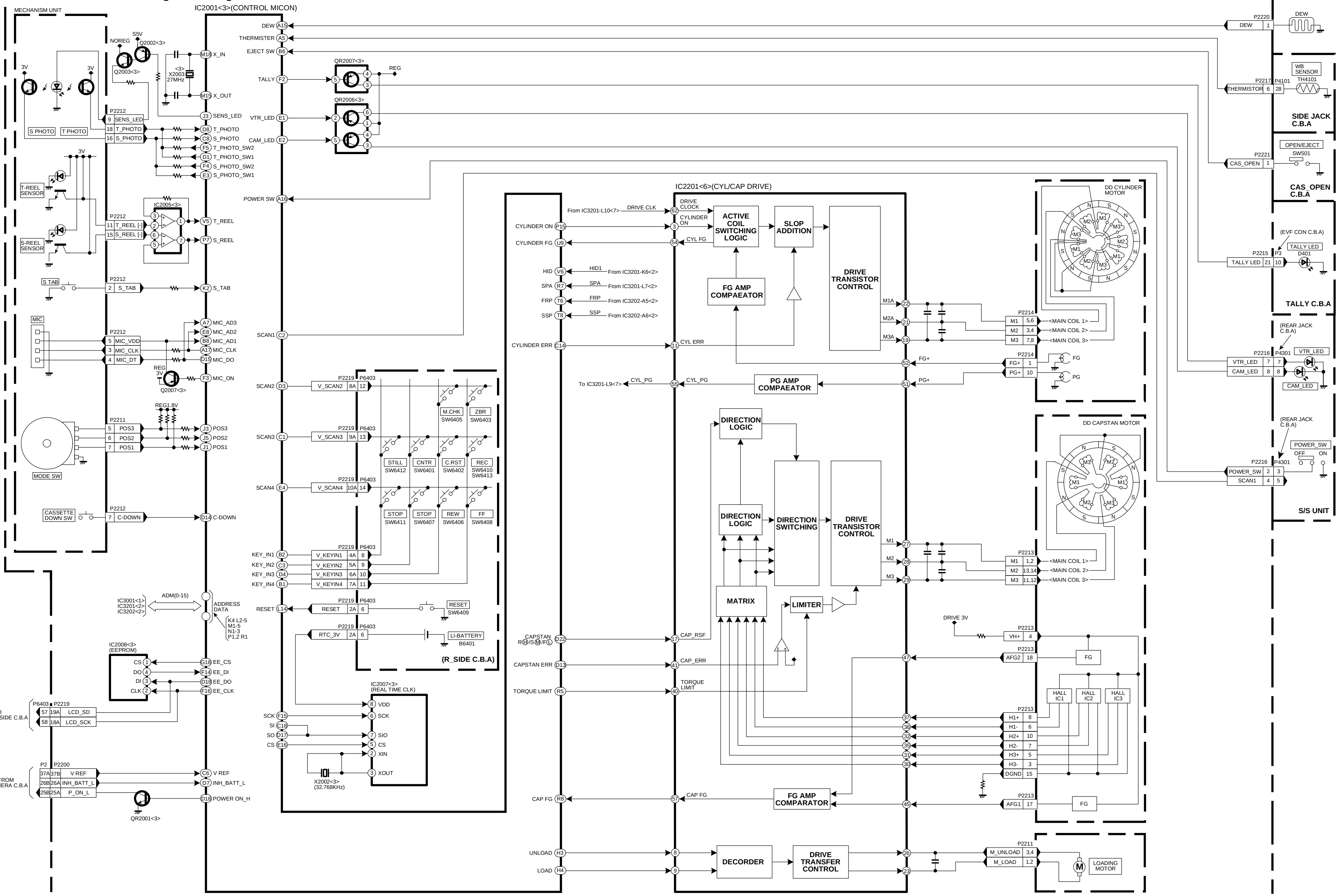

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
From CAMERA C.B.A
P2 P2200
53A 53B 60A 60B YSI(0-7)
42A 42B 50A 50B CSI(0-7)
IC3001<1>
P12,13 R14 T14 U15,16 V15,16
N11, P11 R13, T13 U13,14 V13,14
DIGITAL EFFECT PROCESS
A7,8 B7,C7 D7, E9 F8,9
A9 B8-10 C8,9 D8,9
DAC
DV FORMAT PROCESS
AUDIO PROCESS
Y DATA 1 (0-7)
C DATA 1 (0-7)
U6 V8 R15 R17 V11 U5 U8 N9 C6 A5 B5 C4 V6 V4 C4 B3 C3 A2
INPUT_SEL
<3>from IC2001-G4
<3>from IC2001-P11 SIF_SCK
<3>from IC2001-V12 SIF_SDA
<3>from IC2001-R11 SIF_CS
IC3501<5> (INPUT)
E12,13 F14 G13-15 H14,15
H12 J13,14 K13-15 L13,14
CLK CHANGE
U COM I/F
STP SDA SCK P6 N7 N8
TBC
AGC
Y/C SEP
CLAMP
AD
Y IN D2
C IN L2
S VIDEO Ⓛ N14
N6 CLK27M
A10 CLK135M
Q3503<5> AMP
IC3503<5>
SV_IO
V_IO
Q3504,5<5> AMP
IC3002<1>(AV DRIVE)
C 31 BUFF CLAMP C OUT 53
MIX V OUT 50
Y 35 BUFF CLAMP Y OUT 46
24 23
62 SP OUT 1
64 SP OUT 2
12 LINE_L
16 LINE_R
9 7
P2217 P4101
C_OUT 28 6
Y_OUT 30 4
TO/FROM S_VHS TERMINAL J4101 (SIDE JACK C.B.A)
P2219 P6401 (R_SIDE C.B.A)
SPOUT 1 13,14B 1
SPOUT 2 16,17B 2
SPEAKER
IC3005<1> HP AMP & MUTE
HP L HP R
P2216 P4302
HPL 12 12
HPR 10 10
TO HP OUT (REAR JACK C.B.A)
P2217 P4101
V I/O 14 20
L 12 22
R 10 24
TO/FROM AV IN/OUT JACK J4102 (SIDE JACK C.B.A)
IC3004<1>(AUDIO AD/DA)
LOUT 2 AMP
ROUT 1 AMP
AMP LINE_L 9
AMP LINE_R 10
EXT_L 7
EXT_R 8
From IC2001-U6<3> SBA_CS 26
From IC2001-V10<3> SBA_CLK 27
From IC2001-U11<3> SBA_DO 24
From IC2001-R10<3> SBA_DI 25
CONTROL RESISTOR I/F
DAC
ADC
LRCK 21 BCLK 23 SDTO 18 SDTI 20
AUDIO I/F
IC4005<8>
IC4003<8> W CUT NR
WCUTR & Ⓗ
IC4008<8>
IC4004<8> W CUT NR
IC4002<8>
14 11 12 5 4 1 13 3 9 10
EXTSWA
EXTSWB
P2216 FP4001
MICFL 23 4
MICFR 25 2
FROM INT MIC (MIC C.B.A)
P2217 P4101
EXMICL 21 13
EXMICR 19 15
FROM EXT MIC (SIDE JACK C.B.A)
P2222
XLRMICL 4
XLRMICR 6
FROM XLR Adaptor (Option) (SIDE JACK C.B.A)
IC3201<2>(RIP)
DBR(0-3)
A11 A10 B10 A9
I/F ENCODER
HSE L8
DATA/ ADDRESS
VITABI EQ RF AMP
RF_AGCOUT D3
AFC OUT E1
D11 E9,10 F8-11 G9-11 H9-11 J10,11 K10
B11 CLK27A
PBH K9
RECI H6
HID1 K6
HID2 J6
IC5001<1>(HEAD/REC-AMP)
AGC
AGC DET
AGC AMP
LPF
LOGIC
33 32 31 30 29 28 27 26 8 6 39 18 19 16 17
P2210
CH2F 7
CH2S 6
CH1S 5
CH1F 4
RP Rch
RP Lch
D1-3 E2,4 F1,3,4 G3,5 H1,2,6 J6
TO/FROM IC2001<3>
ADM(0-15)
DATA/ADDRESS
IC3202<2>(PLANET)
A4 CLK27A
J3 XI
D7,10 E8-10 F6,8-10 G8,9 H8-10 J9 K10
DATA/ADDRESS
DBP(0-3)
A10 B9 C8 B7
DV I/F
F1 TPB-
F2 TPB+
F4 TPA-
G5 TPA+
P2216 P4302
TPB- 21 21
TPB+ 22 22
TPA- 18 18
TPA+ 19 19
TO/FROM DV TERMINAL J4302 (REAR JACK C.B.A)

MONITOR(VTR/LCD/EVF) BLOCK DIAGRAM

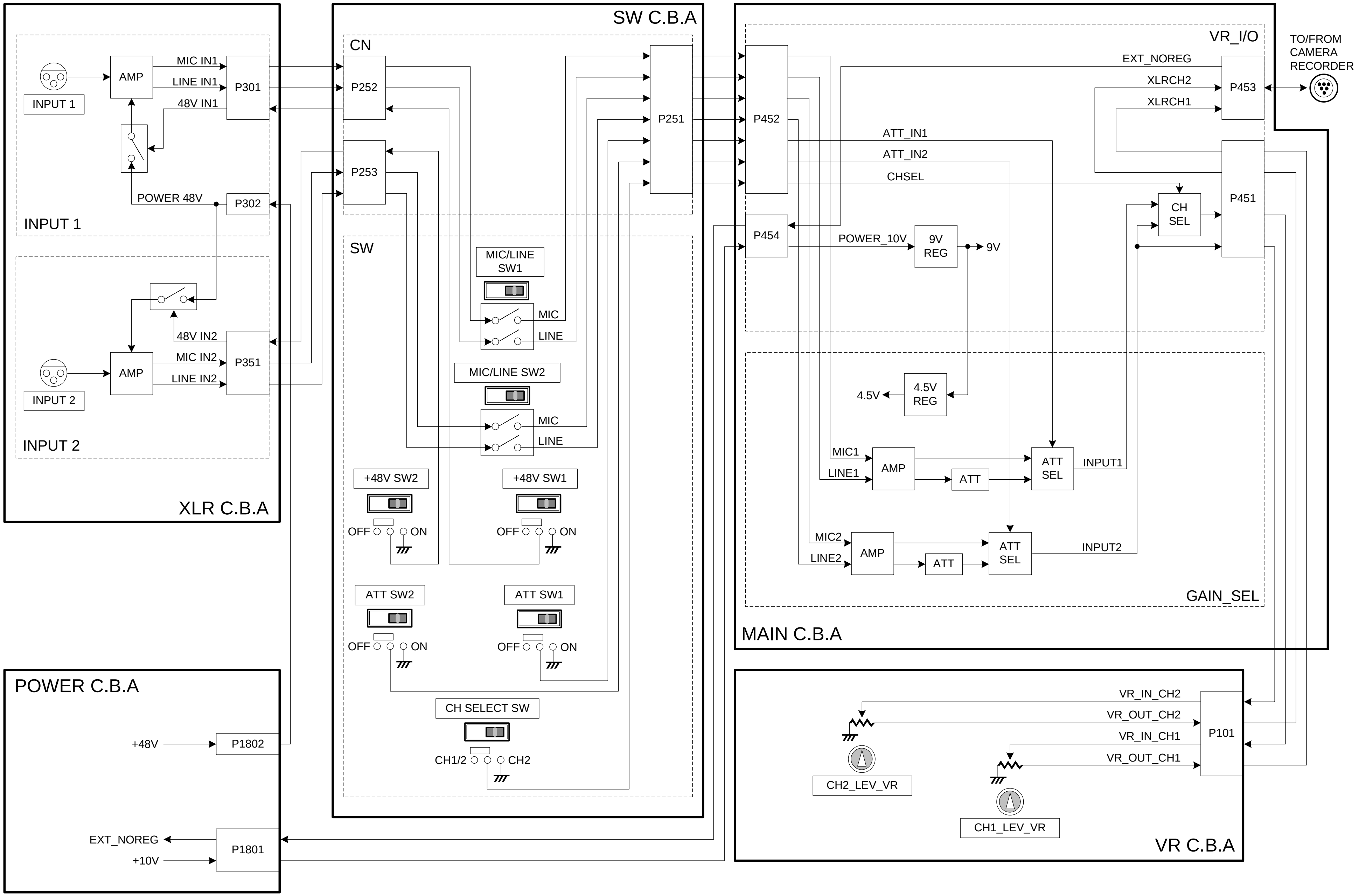


IC3001<1>
EVR_R P18
EVR_G N18
EVR_B M18
V_BLK A15
LCD_HD F12
LCD_R L17
LCD_G K15
LCD_B J18
EVR_R_OUT
EVR_G_OUT
EVR_B_OUT
VBLK
LCD_HD
EVF_CS
LCD_SCK
LCD_SD
IC601<4>(CONTROL/PROCESSOR:EVF LCD)
R 44
G 43
B 42
VD 46
HD 47
CS 8
SCK 10
SDATA 9
CLAMP
LPF
BRIGHT
AMP
BUFFER
PLL COUNTER & DECODER
I/F
V PAL & H PULSE
30
33
35
24 CKV2
17 STH
14 CKH2
13 CKH1
37 COM
21 STV
20 EN
12
IC602<4>
EVF A C.B.A
P2002
CN1
E_R_OUT 57A 3
E_B_OUT 58B 2
E_G_OUT 56B 4
VCK 50A 10
HST 53A 7
HCK2 54A 6
HCK1 55A 5
E-COM 59A 1
VST 49A 11
EN 51A 9
CN2
RED 14
GREEN 15
BLUE 13
VCK 4
HST 9
HCK2 10
HCK1 11
E_COM 16
VST 3
EN 6
EVF LCD PANEL
BACK LIGHT
P2002 CN1
BLD 42A 19
Q881
T881
BL6V
EVF B C.B.A
NOREG
T901
Q902
BL5V
D G S
T902
IC901<4>(CONTROL/PROCESSOR:EVF LCD)
P2001 FP903
M_R 47B 8
M_B 46B 7
M_G 45B 6
M_HD 45A 4
VBLK 44A 5
72
71
70
CLAMP
MATRIX
CONTRAST
GAMMA
BRIGHT
OUTPUT AMP
34 R
36 G
32 B
5 HD
10 VD
IC903
IC904
IC2001<3>
CS J17
DATA D18
CLOCK F16
CS J3
BL_BRIGHT_H H14
LCD_CS 48A 1
LCD_SD 46A 3
LCD_SCK 47A 2
15
16
14
I/F
PLL COUNTER & DECODER
V PAL & H PULSE
64 HST
62 HCK2
61 HCK1
67 VST
66 VCK
65 EN
FP901
R 4
G 5
B 3
H_ST 12
H_CK2 8
H_CK1 7
V_ST 22
V_CK 21
EN 20
LCD PANEL
BACK LIGHT
D902
QR902
LCD_CS 48A 1

CONTROL(VTR) BLOCK DIAGRAM


MECHANISM UNIT
IC2001<3>(CONTROL MICON)
DEW A15
THERMISTER A5
EJECT SW B6
TALLY F2
VTR_LED E1
CAM_LED E2
POWER SW A16
SCAN1 C2
SCAN2 D3
SCAN3 C1
SCAN4 E4
KEY_IN1 B2
KEY_IN2 C3
KEY_IN3 D4
KEY_IN4 B1
RESET L14
M18 X_IN
M19 X_OUT
X2003 27MHz
NOREG
S5V
Q2002<3>
Q2003<3>
3V
S PHOTO
T PHOTO
P2212
9 SENS_LED
18 T_PHOTO
16 S_PHOTO
J3 SENS_LED
D8 T_PHOTO
C8 S_PHOTO
F5 T_PHOTO_SW2
D1 T_PHOTO_SW1
F4 S_PHOTO_SW2
E3 S_PHOTO_SW1
T-REEL SENSOR
S-REEL SENSOR
IC2005<3>
11 T_REEL [-]
15 S_REEL [-]
V5 T_REEL
P7 S_REEL
S TAB
2 S_TAB
K2 S_TAB
MIC
5 MIC_VDD
3 MIC_CLK
4 MIC_DT
A7 MIC_AD3
E8 MIC_AD2
B8 MIC_AD1
A17 MIC_CLK
D15 MIC_DO
REG 3V
Q2007<3>
F3 MIC_ON
REG1.8V
P2211
5 POS3
6 POS2
7 POS1
J3 POS3
J5 POS2
J1 POS1
MODE SW
CASSETTE DOWN SW
7 C-DOWN
D14 C-DOWN
ADM(0-15)
IC3001<1>
IC3201<2>
IC3202<2>
ADDRESS DATA
K4 L2-5
M1-5
N1-3
P1,2 R1
IC2008<3> (EEPROM)
CS DO DI CLK
G18 EE_CS
F14 EE_DI
D18 EE_DO
F16 EE_CLK
TO R SIDE C.B.A
P6403 P2219
57 19A LCD_SD
58 18A LCD_SCK
TO/FROM CAMERA C.B.A
P2 P2200
37A 37B V REF
26B 26A INH_BATT_L
25B 25A P_ON_L
C6 V REF
D7 INH_BATT_L
D16 POWER ON_H
QR2001<3>
QR2007<3>
QR2006<3>
REG
P2219 P6403
V_SCAN2 8A 12
V_SCAN3 9A 13
V_SCAN4 10A 14
V_KEYIN1 4A 8
V_KEYIN2 5A 9
V_KEYIN3 6A 10
V_KEYIN4 7A 11
RESET 2A 6
RTC_3V 2A 6
M.CHK SW6405
ZBR SW6403
STILL SW6412
CNTR SW6401
C.RST SW6402
REC SW6410 SW6413
STOP SW6411
STOP SW6407
REW SW6406
FF SW6408
RESET SW6409
LI-BATTERY B6401
(R_SIDE C.B.A)
IC2007<3> (REAL TIME CLK)
SCK F15
SI C18
SO D17
CS E16
8 VDD
6 SCK
7 SIO
5 CS
2 XIN
3 XOUT
X2002<3> (32.768KHz)
IC2201<6>(CYL/CAP DRIVE)
From IC3201-L10<7> DRIVE CLK
DRIVE CLOCK
CYLINDER ON P15
CYLINDER ON
CYLINDER FG U9
CYL FG
ACTIVE COIL SWITCHING LOGIC
SLOP ADDITION
DRIVE TRANSISTOR CONTROL
FG AMP COMPAEATOR
HID V6 HID1 From IC3201-K6<2>
SPA R7 SPA From IC3201-L7<2>
FRP T6 FRP From IC3202-A5<2>
SSP T8 SSP From IC3202-A6<2>
CYLINDER ERR C14
CYL ERR
To IC3201-L9<7> CYL_PG
CYL_PG
PG AMP COMPAEATOR
M1A M2A M3A
FG+ PG+
P2214
M1 5,6 <MAIN COIL 1>
M2 3,4 <MAIN COIL 2>
M3 7,8 <MAIN COIL 3>
FG+ 1
PG+ 10
FG
PG
DD CYLINDER MOTOR
DIRECTION LOGIC
DIRECTION LOGIC
DIRECTION SWITCHING
DRIVE TRANSISTOR CONTROL
MATRIX
LIMITER
M1 M2 M3
P2213
M1 1,2 <MAIN COIL 1>
M2 13,14 <MAIN COIL 2>
M3 11,12 <MAIN COIL 3>
DD CAPSTAN MOTOR
CAPSTAN R(H)/S(M)/F(L) D22
CAP_RSF
CAPSTAN ERR D13
CAP_ERR
TORQUE LIMIT R5
TORQUE LIMIT
DRIVE 3V
VH+ 4
AFG2 18
FG
HALL IC1
HALL IC2
HALL IC3
H1+ 8
H1- 6
H2+ 10
H2- 7
H3+ 5
H3- 3
DGND 15
CAP FG R8
CAP FG
FG AMP COMPARATOR
AFG1 17
FG
UNLOAD H3
LOAD H4
DECORDER
DRIVE TRANSFER CONTROL
P2211
M_UNLOAD 3,4
M_LOAD 1,2
LOADING MOTOR
P2220
DEW 1
DEW
WB SENSOR
P2217 P4101
THERMISTOR 6 28
TH4101
SIDE JACK C.B.A
OPEN/EJECT
SW501
P2221
CAS_OPEN 1
CAS_OPEN C.B.A
(EVF CON C.B.A)
TALLY LED
P2215 P3
D401
TALLY LED 21 10
TALLY C.B.A
(REAR JACK C.B.A)
P2216 P4301
VTR_LED 7 7
CAM_LED 8 8
VTR_LED
CAM_LED
(REAR JACK C.B.A)
POWER_SW
OFF ON
P2216 P4301
POWER_SW 2 3
SCAN1 4 5
S/S UNIT

OVERALL BLOCK DIAGRAM (AG-MYA30G)

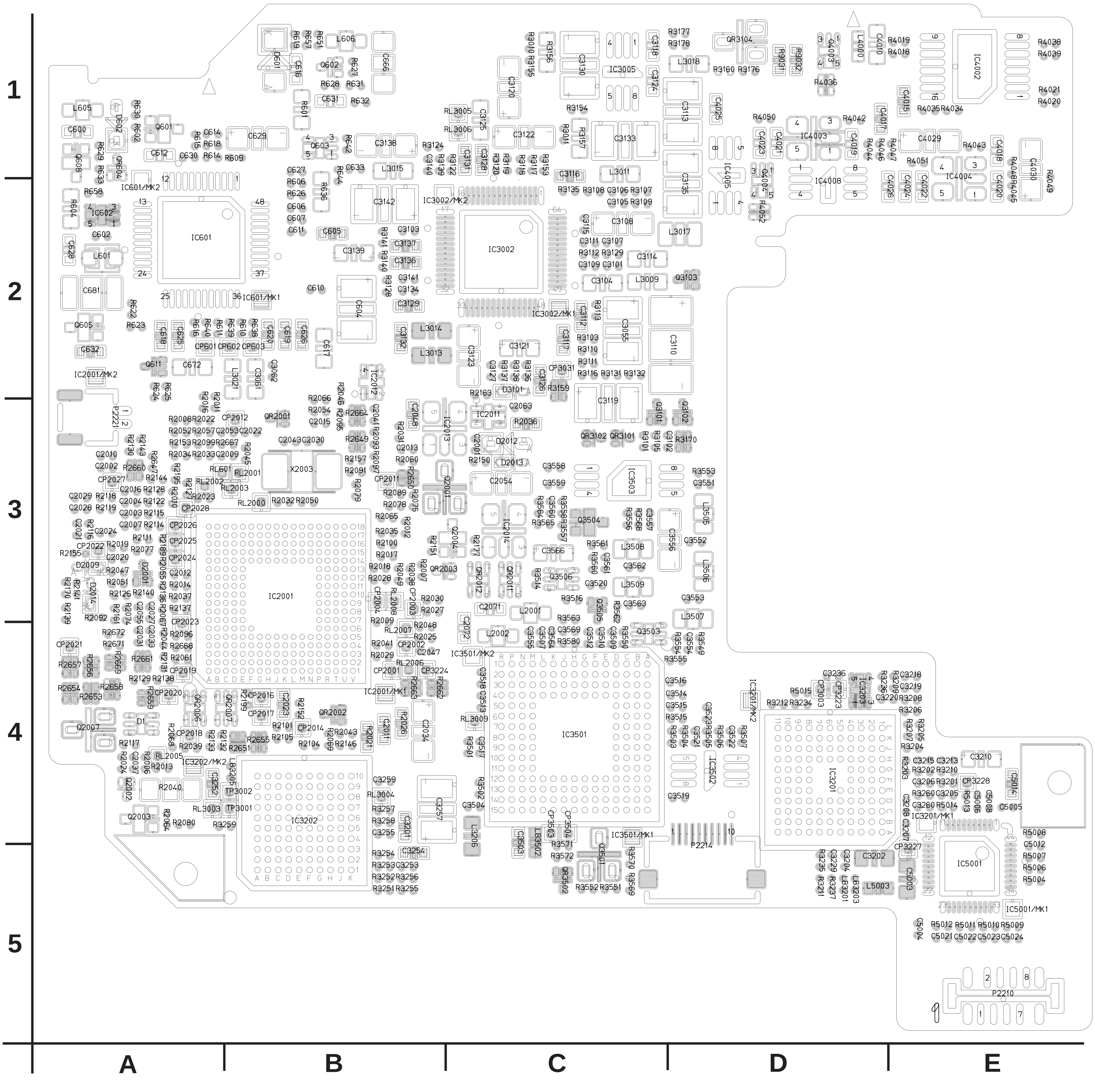


XLR C.B.A
INPUT 1
INPUT 1
AMP
MIC IN1
LINE IN1
48V IN1
P301
POWER 48V
P302
INPUT 2
INPUT 2
AMP
48V IN2
MIC IN2
LINE IN2
P351
SW C.B.A
CN
P252
P253
P251
SW
MIC/LINE SW1
MIC
LINE
MIC/LINE SW2
MIC
LINE
+48V SW2
OFF
ON
+48V SW1
OFF
ON
ATT SW2
OFF
ON
ATT SW1
OFF
ON
CH SELECT SW
CH1/2
CH2
MAIN C.B.A
VR_I/O
P452
P454
P453
P451
EXT_NOREG
XLRCH2
XLRCH1
ATT_IN1
ATT_IN2
CHSEL
CH SEL
POWER_10V
9V REG
9V
TO/FROM CAMERA RECORDER
4.5V REG
4.5V
GAIN_SEL
MIC1
LINE1
AMP
ATT
ATT SEL
INPUT1
MIC2
LINE2
AMP
ATT
ATT SEL
INPUT2
POWER C.B.A
+48V
P1802
EXT_NOREG
+10V
P1801
VR C.B.A
P101
VR_IN_CH2
VR_OUT_CH2
VR_IN_CH1
VR_OUT_CH1
CH2_LEV_VR
CH1_LEV_VR

VTR C.B.A. (NTSC model: VEP03G60A)
(PAL model: VEP03G60B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2001	B3	IC3501	C4	IC601	A2	Q2007	A4	Q4003	D1	QR2002	B4	QR3501	C5
IC2011	C3	IC3502	D4	IC602	A2	Q3101	C3	Q4004	D2	QR2003	C3	QR3502	C5
IC2012	B2	IC3503	C3	P2210	E5	Q3102	D3	Q601	A1	QR2006	A4	QR604	A1
IC2013	C3	IC4002	E1	P2214	D5	Q3103	D2	Q602	B1	QR2007	B4	TP3001	B4
IC2014	C3	IC4003	D1	P2221	A3	Q3501	C5	Q603	B1	QR2011	C3	TP3002	B4
IC3002	C2	IC4004	E1	Q2001	C3	Q3503	C4	Q605	A2	QR2012	C3		
IC3005	C1	IC4005	D1	Q2002	A4	Q3504	C3	Q608	A1	QR3101	C3		
IC3201	D4	IC4008	D2	Q2003	A4	Q3505	C3	Q611	A2	QR3102	C3		
IC3202	B4	IC5001	E5	Q2004	C3	Q3506	C3	QR2001	B3	QR3104	D1		


1
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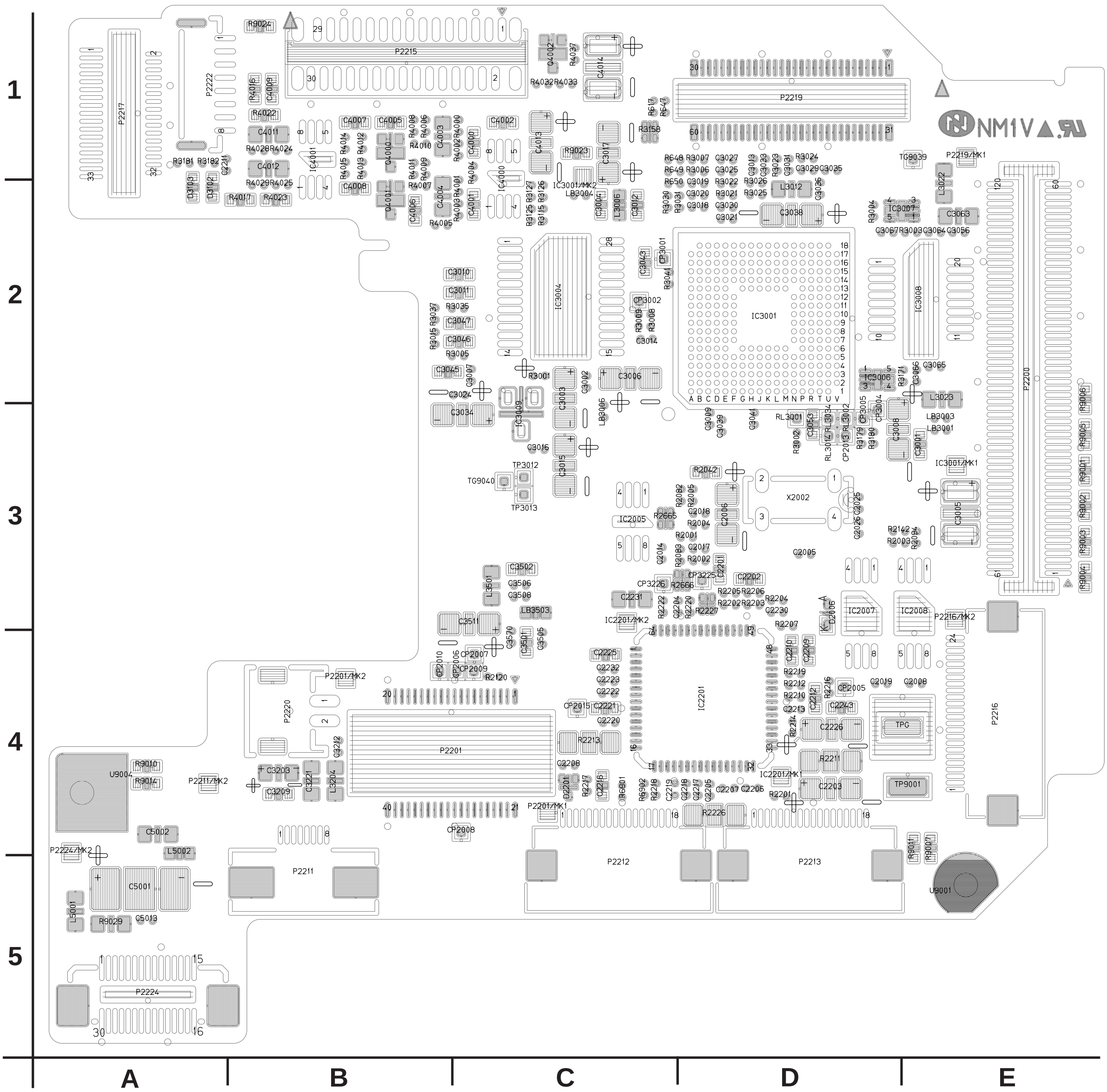
A
B
C
D
E
IC601
IC3002
IC3005
IC4002
IC4004
IC4008
IC2001
IC3501
IC3201
IC3202
IC5001
IC3503
P2214
P2210
P2221

(FOIL SIDE)

VTR C.B.A. (NTSC model: VEP03G60A)
(PAL model: VEP03G60B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2005	C3	IC3007	D2	P2211	B5	P2220	B4	TP3013	C3
IC2007	D3	IC3008	E2	P2212	C5	P2222	A1	TP9001	E4
IC2008	E3	IC3009	C3	P2213	D5	P2224	A5	TG9040	C3
IC2201	D4	IC4000	C1	P2215	B1	Q4000	B1	TG9039	D1
IC3001	D2	IC4001	B1	P2216	E4	Q4001	B2	TPG	E4
IC3004	C2	P2200	E2	P2217	A1	Q4002	C1		
IC3006	D2	P2201	B4	P2219	D1	TP3012	C3		


1
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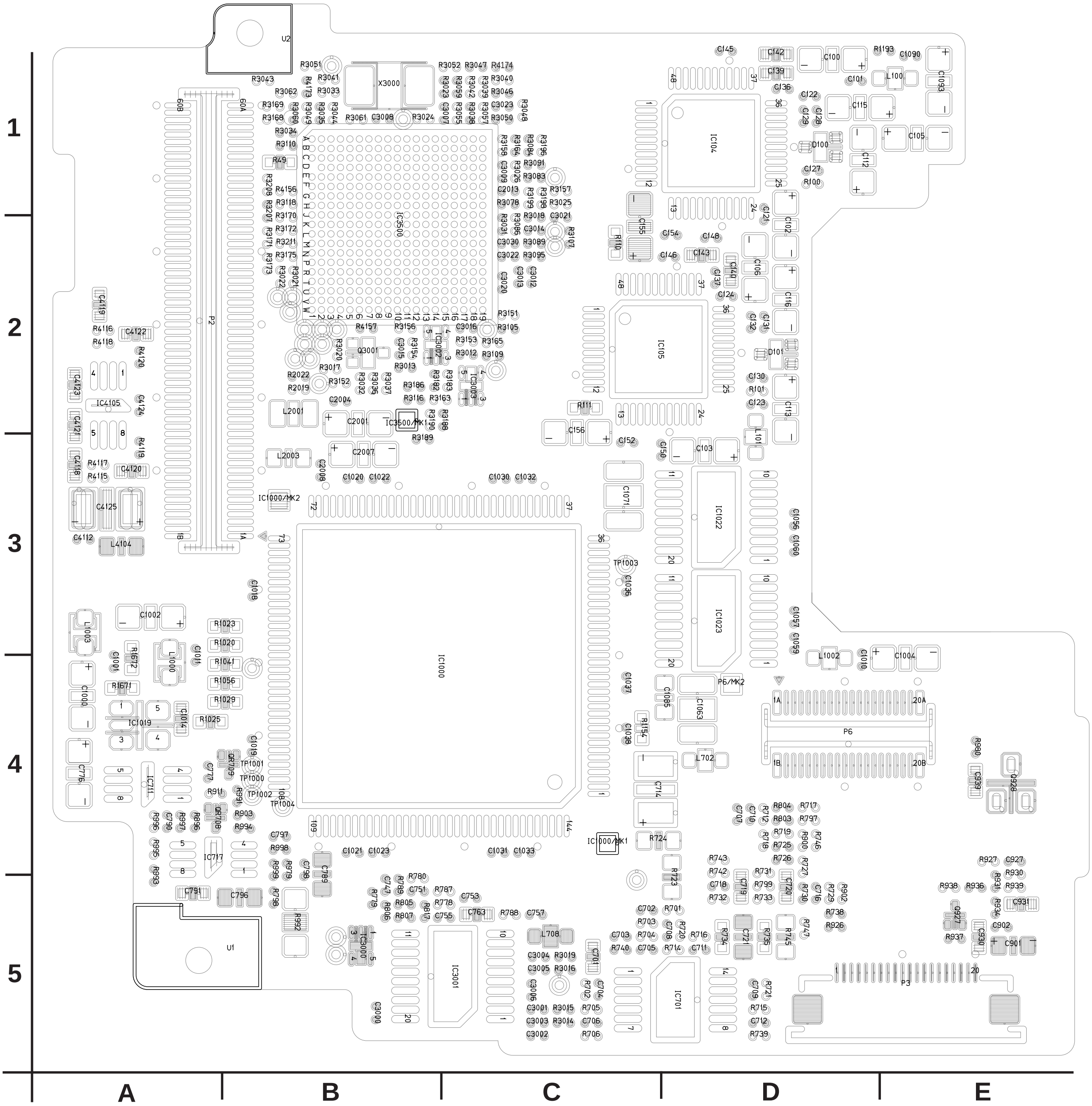
5
A
B
C
D
E
P2217
P2222
P2215
P2219
IC4001
IC4000
IC3004
IC3001
IC3008
P2200
IC2005
X2002
IC2007
IC2008
IC2201
P2216
P2220
P2201
P2211
P2212
P2213
P2224
C5001
U9004
U9001
TPG
TP9001
NM1V

(COMPONENT SIDE)

CAMERA C.B.A. (NTSC model: VEP23598A)
(PAL model: VEP23598B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1000	B4	IC3003	C2	Q3001	B2	TP1004	B4
IC1019	A4	IC3500	B2	Q927	E5		
IC1022	D3	IC4105	A2	Q928	E4		
IC1023	D3	IC701	D5	QR708	A4		
IC104	D1	IC711	A4	QR709	B4		
IC105	C2	IC717	A4	TP1000	B4		
IC3000	B5	P2	A2	TP1001	B4		
IC3001	C5	P3	E5	TP1002	B4		
IC3002	B2	P6	D4	TP1003	C3		



1
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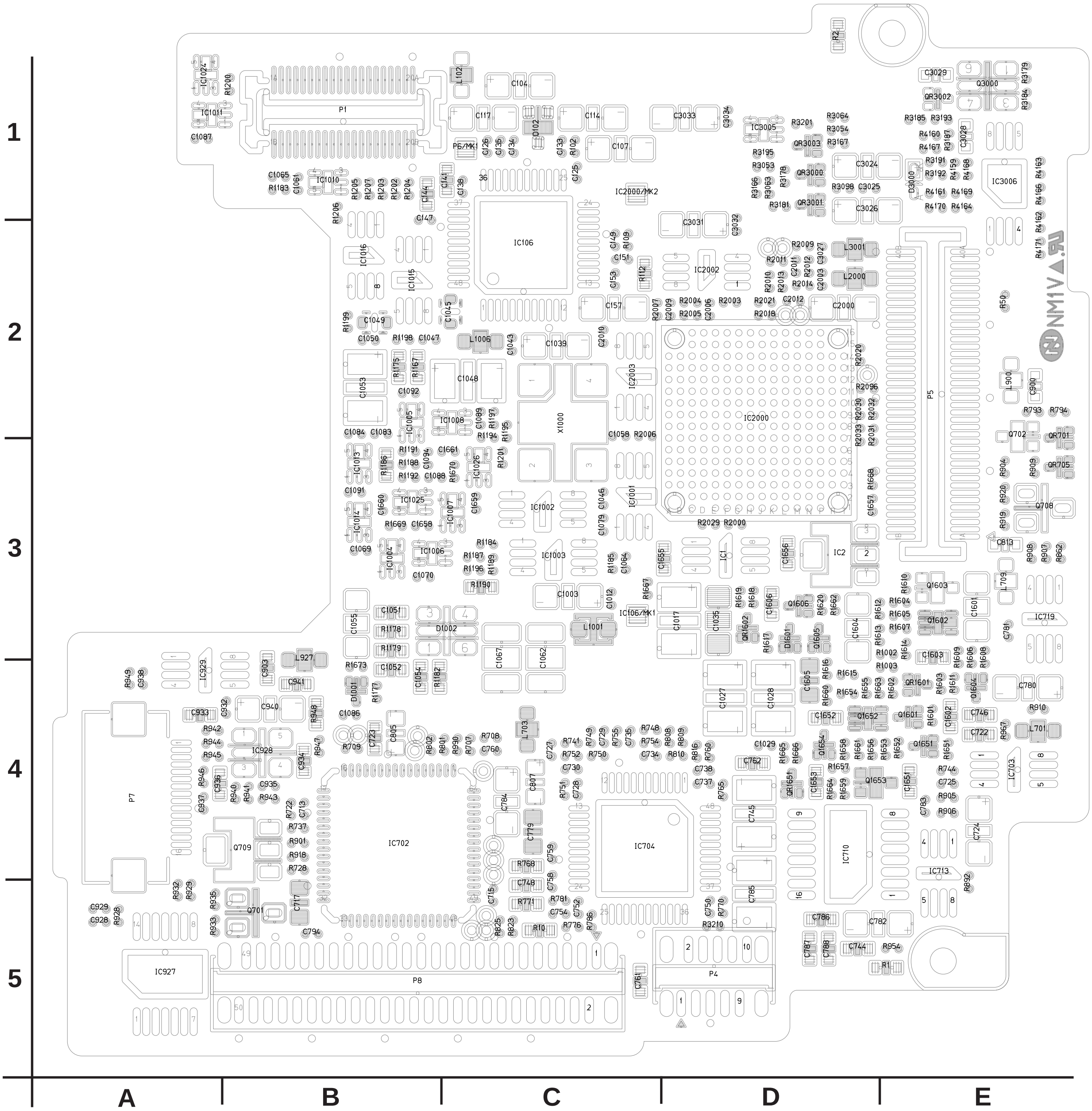
4
5
A
B
C
D
E
U2
U1
P2
P3
P6
X3000
IC3500
IC104
IC105
IC1000
IC1022
IC1023
IC3001
IC701
IC4105
IC1019
IC711
IC717
IC3000
IC3003
TP1000
TP1001
TP1002
TP1003
TP1004

(FOIL SIDE)

CAMERA C.B.A. (NTSC model: VEP23598A)
(PAL model: VEP23598B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	D3	IC1010	B1	IC106	C2	IC704	C4	P5	E2	Q1651	E4	QR1601	E4
IC1001	C3	IC1011	A1	IC2	D3	IC710	D4	P7	A4	Q1652	D4	QR1602	D3
IC1002	C3	IC1013	B3	IC2000	E2	IC713	E4	P8	B5	Q1653	D4	QR1651	D4
IC1003	C3	IC1014	B3	IC2002	E2	IC719	E3	Q1601	E4	Q1654	D4	QR3000	D1
IC1004	B3	IC1015	B2	IC2003	C2	IC927	A5	Q1602	E3	Q3000	E1	QR3001	D1
IC1005	B2	IC1016	B2	IC3005	D1	IC928	B4	Q1603	E3	Q701	B5	QR3002	E1
IC1006	B3	IC1024	A1	IC3006	E1	IC929	A4	Q1604	E4	Q702	E2	QR3003	D1
IC1007	C3	IC1025	B3	IC702	B4	P1	B1	Q1605	D3	Q708	E3	QR701	E2
IC1008	C2	IC1026	C3	IC703	E4	P4	D5	Q1606	D3	Q709	B4	QR705	E3


1
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3
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A
B
C
D
E
P1
P4
P5
P7
P8
IC106
IC702
IC704
IC710
IC2000
IC2002
IC2003
IC3005
IC3006
IC927
IC928
IC929
IC1
IC2
IC1001
IC1002
IC1003
IC1004
IC1005
IC1006
IC1007
IC1008
IC1010
IC1011
IC1013
IC1014
IC1015
IC1016
IC1024
IC1025
IC1026
IC703
IC713
IC719
X1000
L1001
L1006
L2000
L3001
L700
L701
L703
L709
L900
L927
Q701
Q702
Q708
Q709
Q1601
Q1602
Q1603
Q1606
Q1651
Q1652
Q1653
Q3000
QR701
QR705
QR1601
QR3000
QR3001
QR3002
QR3003
D1001
D1002
D3000
C2000
C3024
C3025
C3026
C3029
C3031
C3033
IC2000/MK2
IC106/MK1
P6/MK1
NM1V

(COMPONENT SIDE)

POWER C.B.A. (VEP01952A)

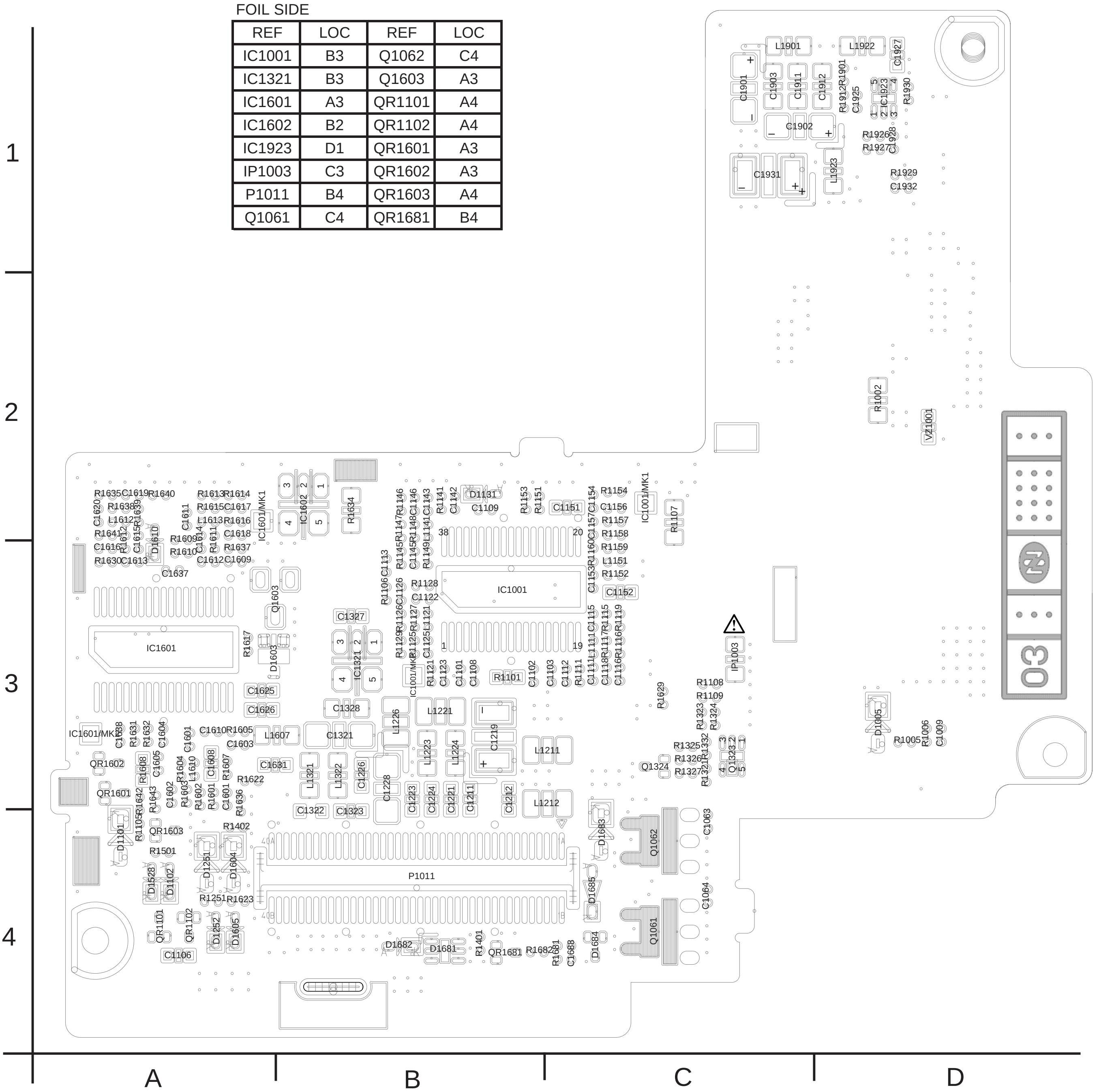
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

FOIL SIDE

REF	LOC	REF	LOC
IC1001	B3	Q1062	C4
IC1321	B3	Q1603	A3
IC1601	A3	QR1101	A4
IC1602	B2	QR1102	A4
IC1923	D1	QR1601	A3
IP1003	C3	QR1602	A3
P1011	B4	QR1603	A4
Q1061	C4	QR1681	B4


1
2
3
4
A
B
C
D
IC1001
IC1601
IC1602
IC1321
IC1923
IP1003
P1011
Q1061
Q1062
Q1603
QR1101
QR1102
QR1601
QR1602
QR1603
QR1681
C1931
C1902
L1901
L1922
L1923
L1211
L1212
L1221
D1131
03

(FOIL SIDE)

POWER C.B.A. (VEP01952A)

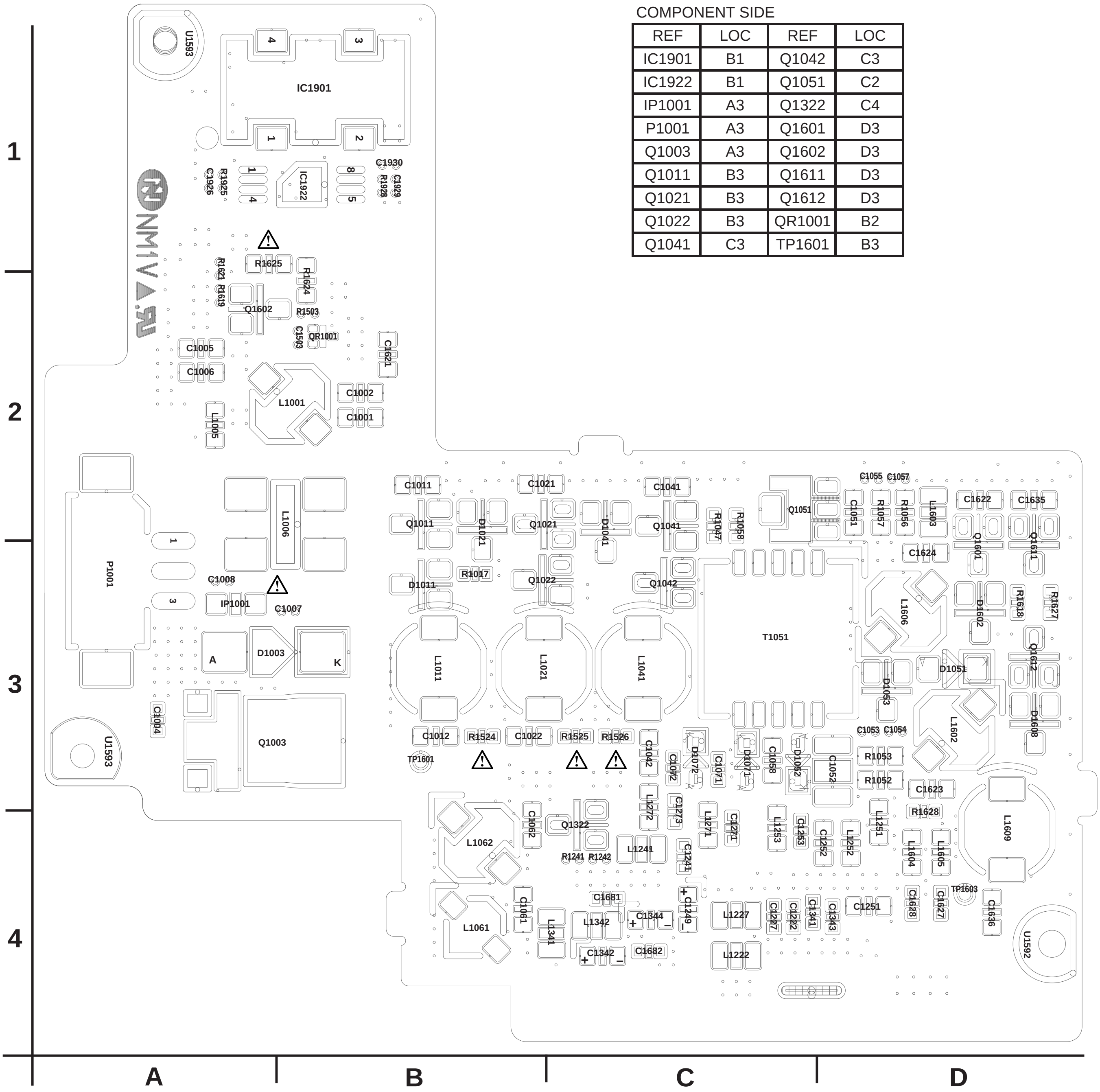
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

COMPONENT SIDE

REF	LOC	REF	LOC
IC1901	B1	Q1042	C3
IC1922	B1	Q1051	C2
IP1001	A3	Q1322	C4
P1001	A3	Q1601	D3
Q1003	A3	Q1602	D3
Q1011	B3	Q1611	D3
Q1021	B3	Q1612	D3
Q1022	B3	QR1001	B2
Q1041	C3	TP1601	B3


1
2
3
4
A
B
C
D
U1593
IC1901
IC1922
C1930
R1928
C1929
R1925
C1926
R1625
R1624
R1621
R1619
Q1602
R1503
C1503
QR1001
C1621
C1005
C1006
L1001
C1002
C1001
L1005
P1001
L1006
C1008
IP1001
C1007
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A
K
C1004
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C1057
C1051
R1057
R1056
L1603
C1622
C1635
Q1601
Q1611
C1624
D1011
R1017
Q1022
Q1042
T1051
L1606
D1602
R1618
R1627
D1051
Q1612
L1011
L1021
L1041
D1053
D1608
C1053
C1054
L1602
C1012
R1524
C1022
R1525
R1526
TP1601
C1042
C1072
D1072
C1071
D1071
C1058
D1052
C1052
R1053
R1052
C1623
R1628
L1609
L1272
C1273
L1271
C1271
L1253
C1253
C1252
L1252
L1251
L1604
L1605
C1062
Q1322
L1062
R1241
R1242
L1241
C1241
TP1603
C1681
C1249
C1061
L1061
L1341
L1342
C1344
L1227
C1227
C1222
C1341
C1343
C1251
C1628
C1627
C1636
C1342
C1682
L1222
U1592

(COMPONENT SIDE)

ORDER NO. BSD04030090
D21

Service Manual

Sec. 1 *Service Information*
Sec. 2 *Disassembly Procedures*
Sec. 3 *Mechanical Adjustment*
Sec. 4 *Electrical Adjustment*
Sec. 5 *Block Diagrams*
Sec. 6 *Schematic Diagrams*
Sec. 7 *Circuit Board Diagrams*
Sec. 8 *Exploded Views &*
Replacement Parts List

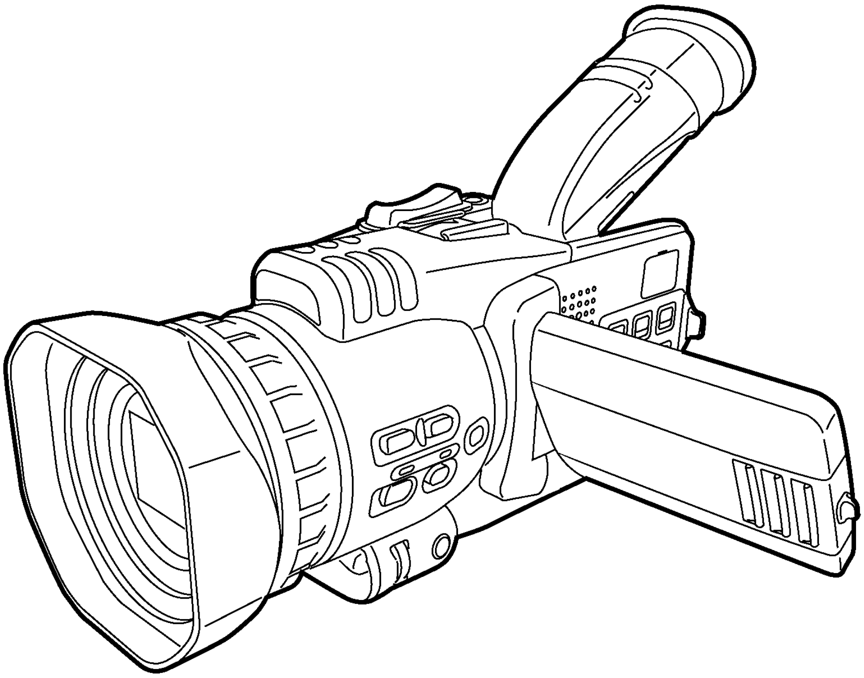
Mini DV

Digital Video Camera Recorder

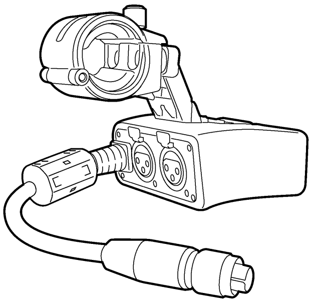
AG-DVC30P/E
AG-DVC32EN
AG-DVC33MC

XLR Microphone Adapter

AG-MYA30G



AG-DVC30/32/33



AG-MYA30G

Panasonic

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⚠ **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

AG-DVC30P

Specifications

[GENERAL]

Supply voltage: DC 7.2 V/7.9 V
Power consumption:
5.0 W (when the viewfinder is used)
6.1 W (when the LCD monitor is used)
Power consumption when XLR microphone adapter (AG-MYA30G) is connected:
6.2 W (when the viewfinder is used)
7.4 W (when the LCD monitor is used)
8.5 W (maximum)

☐ indicates safety information.

Ambient operating temperature
32°F to 104°F (0°C to 40°C)
Ambient operating humidity
10% to 85% (no condensation)
Weight
2.31 lb (1.05 kg)
(excluding battery and accessories)
Dimensions (W×H×D)
4 3/8×4 5/8×10 inches (110×116×253 mm)
The height increases to 6 5/16 inches (160 mm) when the handle is attached.
Recording format
Digital video SD format
Tape format
Mini DV system
Video signals recorded
525i (NTSC)
Shooting mode
60i
Audio signals recorded
PCM digital recording
16 bits: 48 kHz/2 channels
12 bits: 32 kHz/4 channels
Recording tracks
Digital video/audio:
Helical tracks
Time code:
Helical track (sub code area)
Tape speeds
SP mode: 18.812 mm/sec.
LP mode: 12.555 mm/sec.
Recording time (when AY-DVM60 is used)
SP mode: 60 minutes
LP mode: 90 minutes
Tapes used
6.35 mm wide metal tapes
FF/REW time
Approx. 140 sec. (when AY-DVM60 is used)
Pickup devices
Interline transfer 1/4-inch CCD image senser (×3)
Number of pixels
Total number of pixels: 410,000,
Number of effective pixels: 380,000
(pixel offset system)
Lens
Leica DICOMAR optical image stabilizer lens, motorized 16× zoom,
F1.6 (f=4.1 to 65.6 mm)
(35 mm equivalent: 39.5 to 632 mm)
Color separation optical system
Prism system
ND filter
Interlocked with iris, auto ON/OFF
Gain settings
0, +3, +6, +9, +12, +15, +18 dB
Shutter speed settings
Slow shutter speeds:
1/4, 1/8, 1/15, 1/30 sec.
Regular shutter speeds:
1/60, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro scan shutter speeds:
1/60.3 to 1/250 sec.
Minimum subject illuminance
4 lux:
F1.6, +18 dB gain, 50 IRE video output
Lens hood
Large-sized lens hood with wide angle of view
Filter diameter
43 mm
LCD monitor
3.5-inch LCD color monitor, 200,000 pixels
Viewfinder
0.44-inch, LCD color viewfinder, 180,000 pixels
Internal microphone
Stereo microphone
Internal speaker
20 mm diameter

Specifications (cont.)

[VIDEO]

Sampling frequency
Y: 13.5 MHz, PB/PR: 3.375 MHz
Quantizing
8 bits
Video compression system
DCT + variable-length code
Error correction
Reed-Solomon product code

[AUDIO]

Sampling frequency
48 kHz/32 kHz
Quantizing
16 bits/12 bits
Frequency response
20 Hz to 20 kHz
Wow & flutter
Below measurable limits

[CONNECTORS]

MIC
Stereo (3.5 mm diameter)
Mic sensitivity: –70 dBV
S-VIDEO IN/OUT
(input/output switched automatically)
S-connector, Y/C separate signal input/output
Y: 1.0 V [p-p], C: 0.286 V [p-p], 75 Ω
AV IN/OUT
(input/output switched automatically)
Mini jack (3.5 mm diameter)
Video:
Analog composite input/output, 1.0 V [p-p], 75 Ω
Audio (CH1, CH2):
Input: –10 dBV, high impedance
Output: –10 dBV, low impedance
XLR ADAPTER
Dedicated mini XLR connector
DC input (INPUT 7.9 V)
DC 7.9 V
PHONES
Stereo (3.5 mm diameter)
DV
4 pins, digital input/output, compliant with IEEE 1394 standard
CAM REMOTE
Mini jack (2.5 mm diameter)

[AC ADAPTER]

Power Source:
110/120/220/240 V AC, 50/60 Hz
Power Consumption:
18 W

▭ indicates safety information.

Weight
0.35 lb (0.16 kg)
Dimensions (W×H×D)
$2\,^{13}/_{16}\times1\,^{13}/_{16}\times4\,^{5}/_{8}$ inches
(70×44.5×116 mm)

[OPTIONAL UNITS]

Wide conversion lens
AG-LW4307P
Stereo microphone
AG-MC15P
XLR microphone
AG-MC100G
XLR microphone adapter
AG-MYA30G
Infrared light
AG-YRL30G
Hard carrying case
AG-HT30G
Soft carrying case
AG-SC100G
Battery
CGR-D16
(1600 mAh: equivalent to accessory battery)
CGP-D28 (2800 mAh)
CGA-D54 (5400 mAh)
AC adapter kit
AG-B15 (equivalent to accessory AC cord, DC cord, AC adapter)
Cleaning tape
AY-DVMCLA

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

Specifications

[GENERAL]

Supply voltage: DC 7.2 V/7.9 V
Power consumption:
5.0 W (when the viewfinder is used)
6.1 W (when the LCD monitor is used)
Power consumption when XLR microphone adapter (AG-MYA30G) is connected:
6.2 W (when the viewfinder is used)
7.4 W (when the LCD monitor is used)
8.5 W (maximum)

▭ indicates safety information.

Ambient operating temperature
0°C to 40°C
Ambient operating humidity
10% to 85% (no condensation)
Weight
1.05 kg
(excluding battery and accessories)
Dimensions (W×H×D)
110×116×253 mm
The height increases to 160 mm when the handle is attached.
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Tape format
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Approx. 140 sec. (when AY-DVM60 is used)
Pickup devices
Interline transfer 1/4-inch CCD image senser (×3)
Number of pixels
Total number of pixels: 470,000,
Number of effective pixels: 440,000
(pixel offset system)
Lens
Leica DICOMAR optical image stabilizer lens, motorized 16× zoom, F1.6 (f=4.1 to 65.6 mm)
(35 mm equivalent: 39.5 to 632 mm)
Colour separation optical system
Prism system
ND filter
Interlocked with iris, ON/OFF switched automatically
Gain settings
0, +3, +6, +9, +12, +15, +18 dB
Shutter speed settings
Slow shutter speeds:
1/3, 1/6, 1/12, 1/25 sec.
Regular shutter speeds:
1/50, 1/60, 1/120, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/8000 sec.
Synchro scan shutter speeds:
1/50.2 to 1/248 sec.
Minimum subject illuminance
4 lux:
F1.6, +18 dB gain, 50% video output
Lens hood
Large-sized lens hood with wide angle of view
Filter diameter
43 mm
LCD monitor
3.5-inch LCD colour monitor, 200,000 pixels
Viewfinder
0.44-inch, LCD colour viewfinder, 180,000 pixels
Internal microphone
Stereo microphone
Internal speaker
20 mm diameter

Specifications (cont.)

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Sampling frequency
Y: 13.5 MHz, PB/PR: 6.75 MHz
Quantizing
8 bits
Video compression system
DCT + variable-length code
Error correction
Reed-Solomon product code

[AUDIO]

Sampling frequency
48 kHz/32 kHz
Quantizing
16 bits/12 bits
Frequency response
20 Hz to 20 kHz
Wow & flutter
Below measurable limits

[CONNECTORS]

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Stereo (3.5 mm diameter)
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(input/output switched automatically)
S-connector, Y/C separate signal input/output
Y: 1.0 V [p-p], C: 0.3 V [p-p], 75 Ω
AV IN/OUT
(input/output switched automatically)
Mini jack (3.5 mm diameter)
Video:
  Analogue composite input/output, 1.0 V [p-p], 75 Ω
Audio (CH1, CH2):
  Input: –10 dBV, high impedance
  Output: –10 dBV, low impedance
XLR ADAPTER
Dedicated mini XLR connector
DC input (INPUT 7.9 V)
DC 7.9 V
PHONES
Stereo (3.5 mm diameter)
DV
4 pins, digital input/output, compliant with IEEE 1394 standard
CAM REMOTE
Mini jack (2.5 mm diameter)

[AC ADAPTER]

Input:
100 – 240 V AC, 50/60 Hz, 20 W
Output:
Video camera: DC 7.9 V, 1.4 A (max.)
Charge: DC 8.4 V, 1.2 A

▭ indicates safety information.

Weight
0.16 kg
Dimensions (W×H×D)
70×44.5×116 mm

[OPTIONAL UNITS]

Wide conversion lens
AG-LW4307P
Stereo microphone
AG-MC15P
XLR microphone
AG-MC100G
XLR microphone adapter
AG-MYA30G
Infrared light
AG-YRL30G
Hard carrying case
AG-HT30G
Soft carrying case
AG-SC100G
Battery
CGR-D16S
  (1600 mAh: equivalent to accessory battery)
CGP-D28S (2800 mAh)
CGA-D54S (5400 mAh)
AC adapter kit
AG-B15E (equivalent to accessory AC cord, DC cord, AC adapter)
Cleaning tape
AY-DVMCLC

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

Specifications

Ambient operating temperature:
32°F to 104°F (0°C to +40°C)
Ambient operating humidity:
10% to 85% (no condensation)
Weight:
0.407 lb (185 g)
Excluding microphone holder
Dimensions (W×H×D):
2 3/4×1 1/2×3 inches
(69.6×36.6×75 mm)
Excluding microphone holder

XLR connector (INPUT1, INPUT2):
XLR (3 pins) ×2 (CH1, CH2)
LINE/MIC switching, high impedance
LINE : 0 dBu
MIC : –50 dBu/–60 dBu (setting selected using ATT switch)

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts, which have been over-heated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5MΩ.

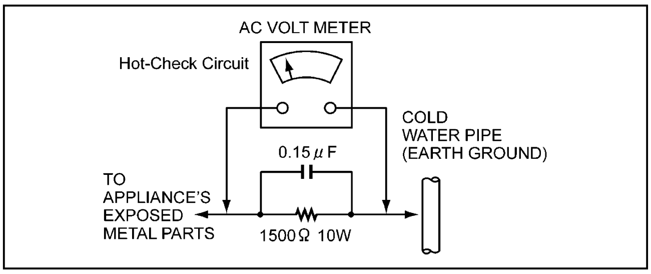


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ, 10W resistor, in parallel with a 0.15µ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of Pbf PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:

1. Pb free solder has a higher melting point than standard solder; Typically the melting point is 50–70˚F (30-40˚C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700±20˚F (370±10˚C).
2. Pb free solder will tend to splash when heated too high (about 1100˚F/600˚C).

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
   (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

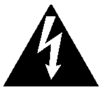
IMPORTANT

"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

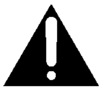
CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

FCC Note:

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning:

To assure continued FCC emission limit compliance, the user must use only shielded interface cable when connecting to external units. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate it.

CAUTION:

Danger of explosion or fire if battery is mistreated.

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 140°F (60°C).
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

Notice (U.S.A.only):

This product has a fluorescent lamp that contains a small amount of mercury.
It also contains lead in some components.
Disposal of these materials may be regulated in your community due to environmental considerations.
For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance:
<http://www.eiae.org.>

Camera-Recorder

- The rating plate is on the underside of the Camera-Recorder

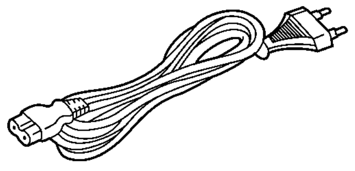
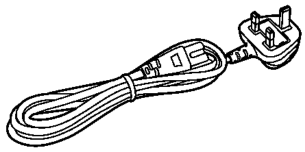
AC Adapter

- The rating plate is on the underside of the AC Adapter.
- Disconnect the AC mains plug from the AC mains socket when not in use.

▭ indicates safety information.

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC.	**FOR U.K. ONLY**
Not to be used in the U.K. 	If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted. 

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

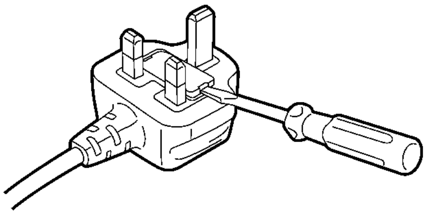
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

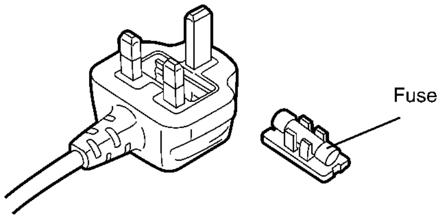
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
- Under no circumstances shoul either of these wires be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ .

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



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Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

■ DO NOT REMOVE PANEL COVER BY UNSCREWING.

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

Danger of explosion or fire if battery is mistreated.

- Replace only with same or specified type.
- Do not disassemble or dispose of in fire.
- Do not store in temperatures over 60°C.
- Use specified charger for rechargeable batteries.
- Do not recharge the battery if it is not a rechargeable type.

For Remote Controller

- Replace battery with part No. CR2025 only.
- Do not recharge the battery.

Camera Recorder

- The rating plate is on the underside of the Camera Recorder

AC Adapter

- The rating plate is on the underside of the AC Adapter.
- Disconnect the AC mains plug from the AC mains socket when not in use.

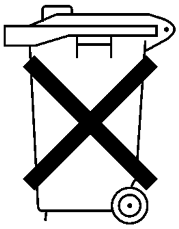
CAUTION:

THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

▭ indicates safety information.

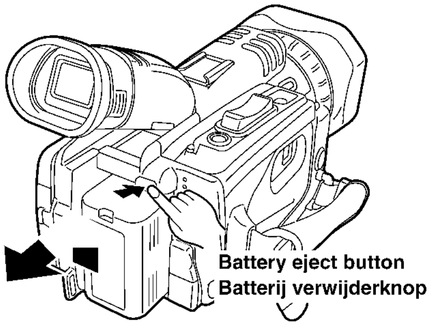
Attention/Attentie

- Batteries are used for the main power source, memory back-up in the product and remote controller.
  At the end of their useful life, you should not throw them away.
  Instead, hand them in as small chemical waste.
- Voor de primaire voeding en het reservegeheugen van het apparaat, alsmede voor de afstandsbediening, wordt gebruik gemaakt van een batterij.
  Wanneer de batterij uitgeput is, mag u deze niet gewoon weggooien, maar dient u ze als klein chemisch afval weg te doen.



To remove the battery/ Verwijderen van de batterij

Main Power Battery
Batterij Voor Primaire Voeding



■ **DO NOT REMOVE COVER BY UNSCREWING.**

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside.

Refer servicing to qualified service personnel.

WARNING:

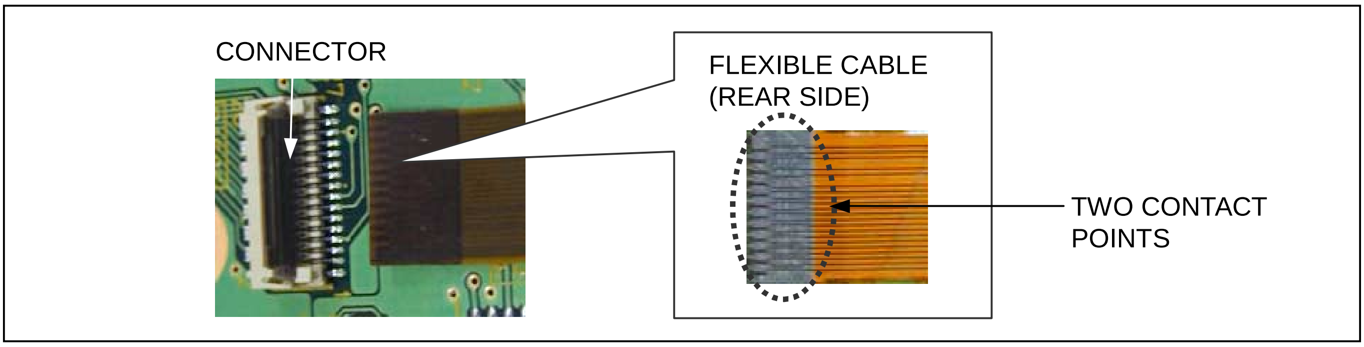
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

▭ indicates safety information.

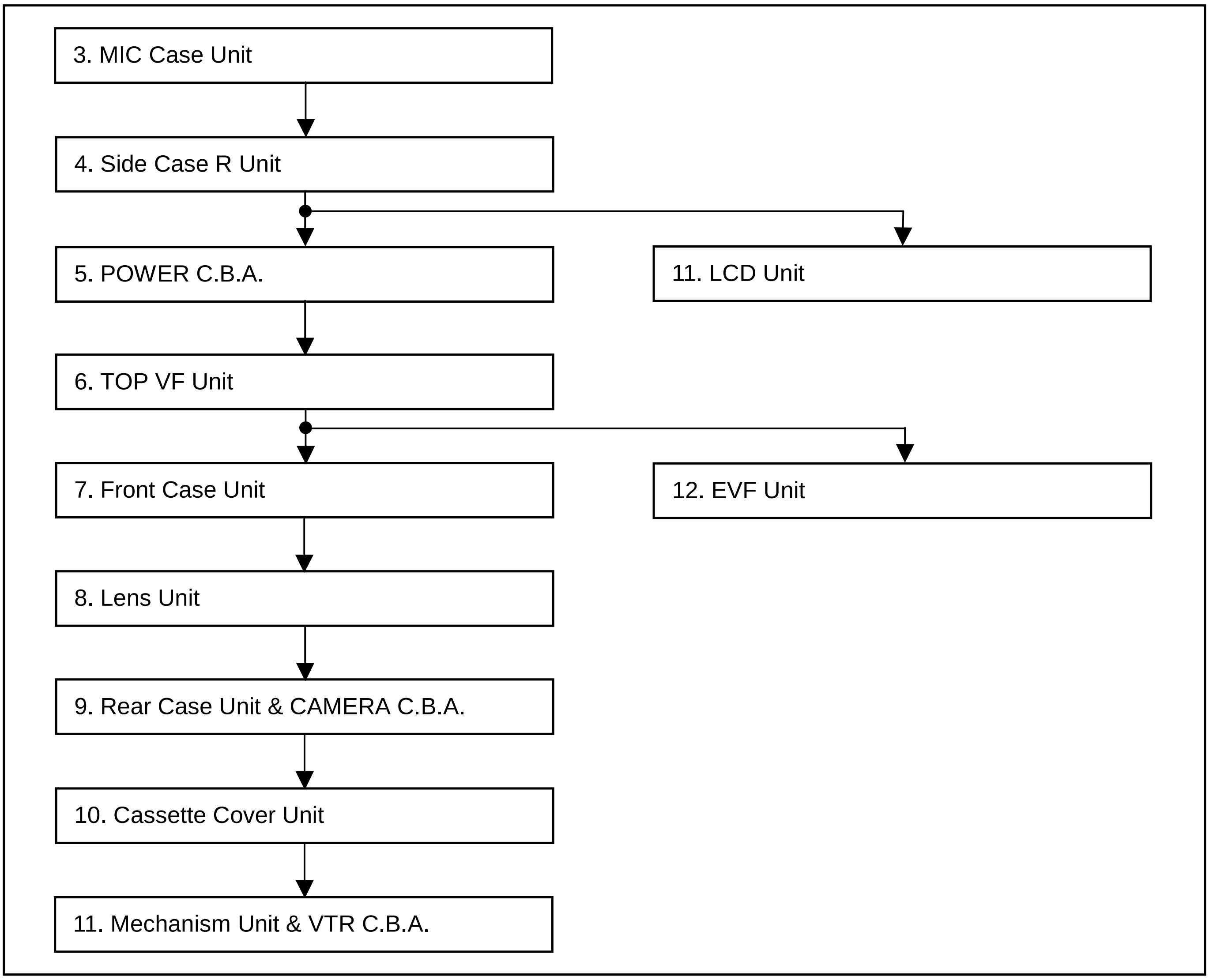
Panasonic

1. Note when inserting Flexible Cable

The flexible cables, have two sets of contacts on each cable, see the figure below. When inserting these cables into the connector, make sure that the cables are fully inserted, if not they may damage the connector.

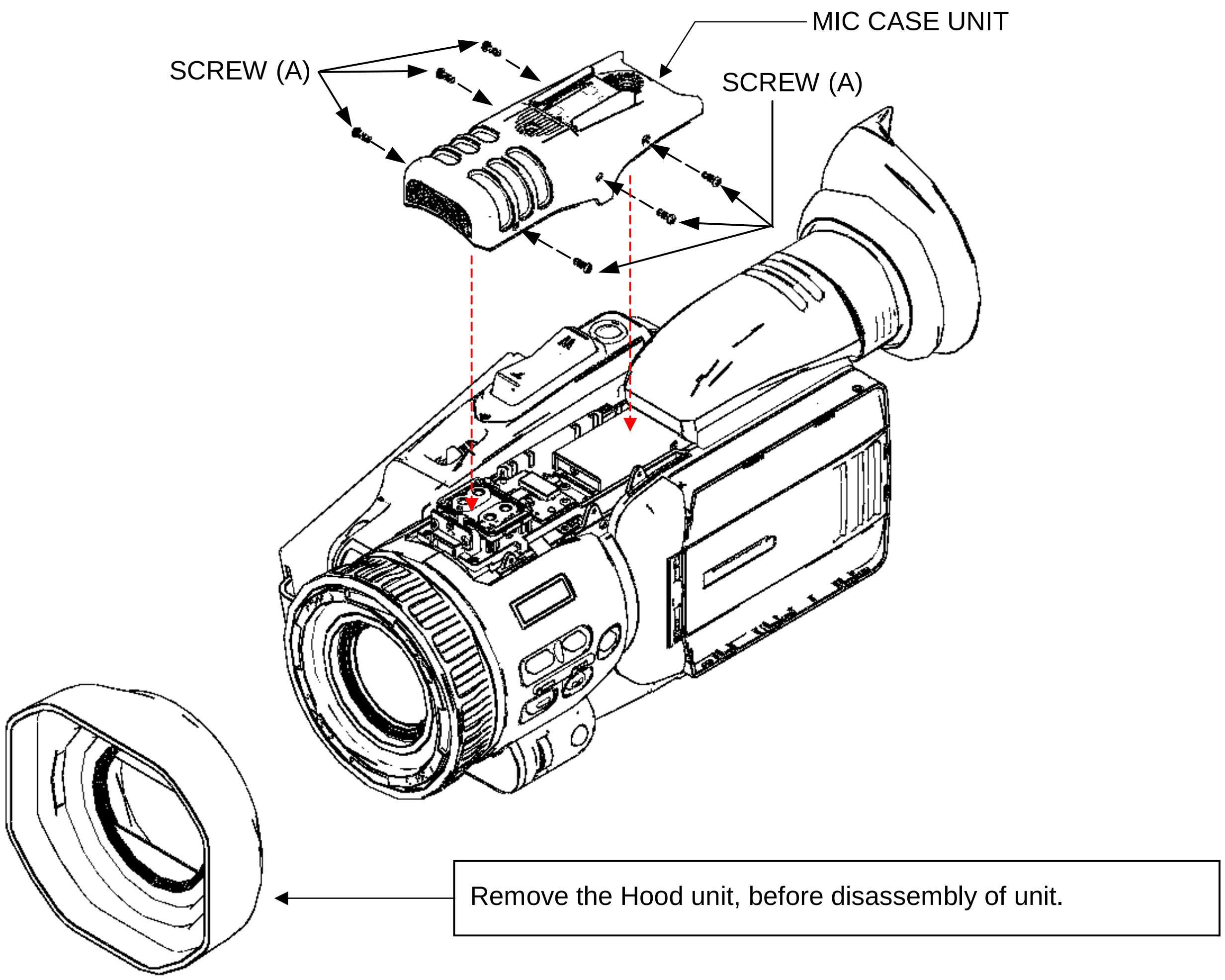

CONNECTOR
FLEXIBLE CABLE
(REAR SIDE)
TWO CONTACT
POINTS

2. Disassembly Flowchart


3. MIC Case Unit
4. Side Case R Unit
5. POWER C.B.A.
11. LCD Unit
6. TOP VF Unit
7. Front Case Unit
12. EVF Unit
8. Lens Unit
9. Rear Case Unit & CAMERA C.B.A.
10. Cassette Cover Unit
11. Mechanism Unit & VTR C.B.A.

3. Removal of MIC Case Unit

1. Unscrew the 6 screws (A) and remove the MIC Case Unit as shown in figure 3-1.


MIC CASE UNIT
SCREW (A)
SCREW (A)

Remove the Hood unit, before disassembly of unit.

Figure 3-1

4. Removal of Side Case R Unit

1. Remove the MIC Case Unit.
2. Unscrew the 10 screws (A) as shown in figure 4-1.
3. Disconnect the connector P6403 on R SIDE C.B.A. and remove the Side Case R Unit as shown in figure 4-1.

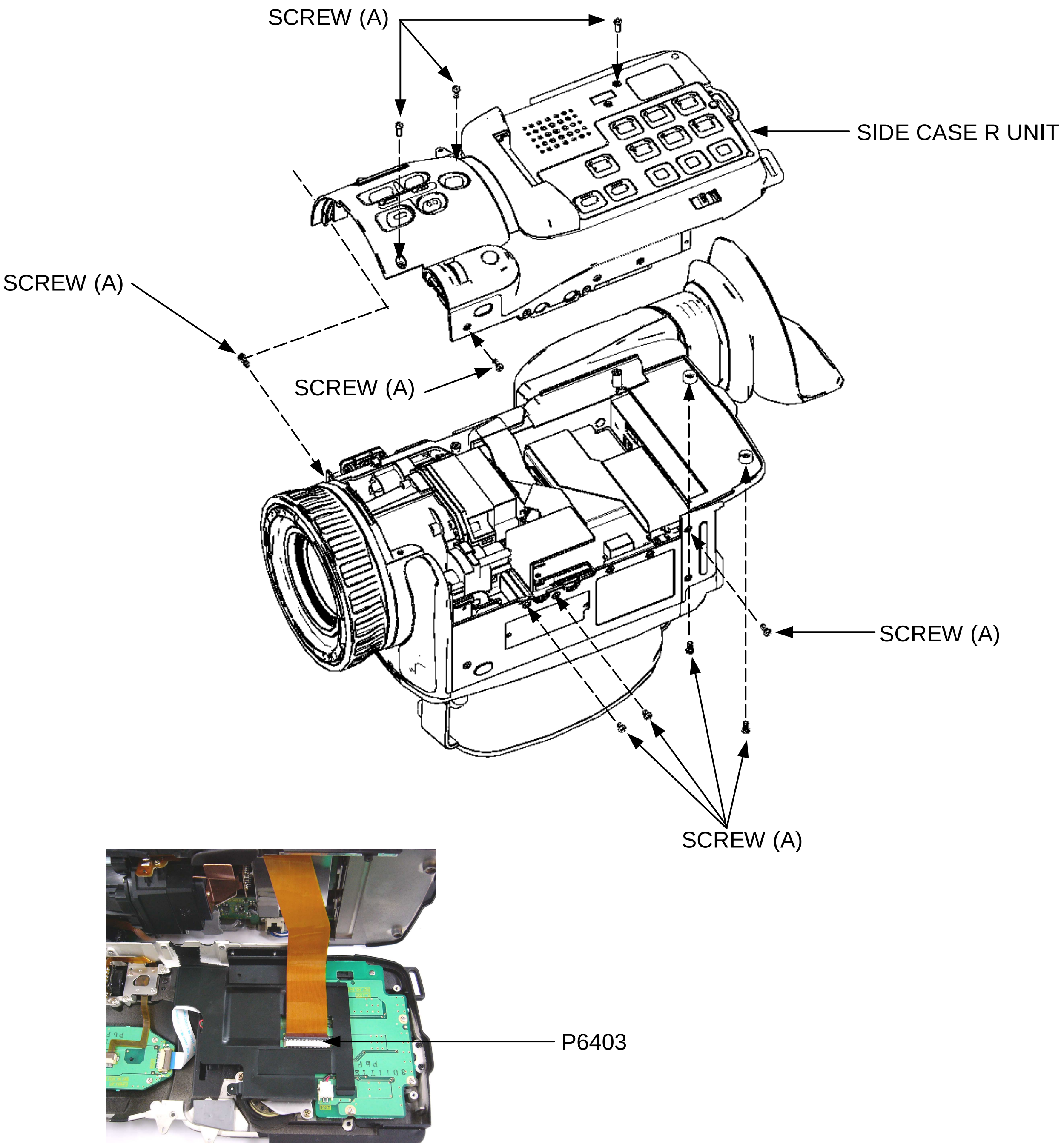

SCREW (A)
SIDE CASE R UNIT
SCREW (A)
SCREW (A)
SCREW (A)
SCREW (A)
P6403

Figure 4-1

5. Removal of POWER C.B.A.

1. Remove the MIC Case Unit.
2. Remove the Side case R Unit.
3. Disconnect a connector P1001 on POWER C.B.A. as shown in figure 5-1.
4. Unscrew the 2 screws (A) and remove the POWER C.B.A.. Be careful because the CAMERA C.B.A.(bottom side of POWER C.B.A.) and the connector in the POWER C.B.A are combining the one connector.

(Note in installation)

1. In case new POWER C.B.A. is installed, put the Cooling Sheet in following position as shown in figure 5-1.

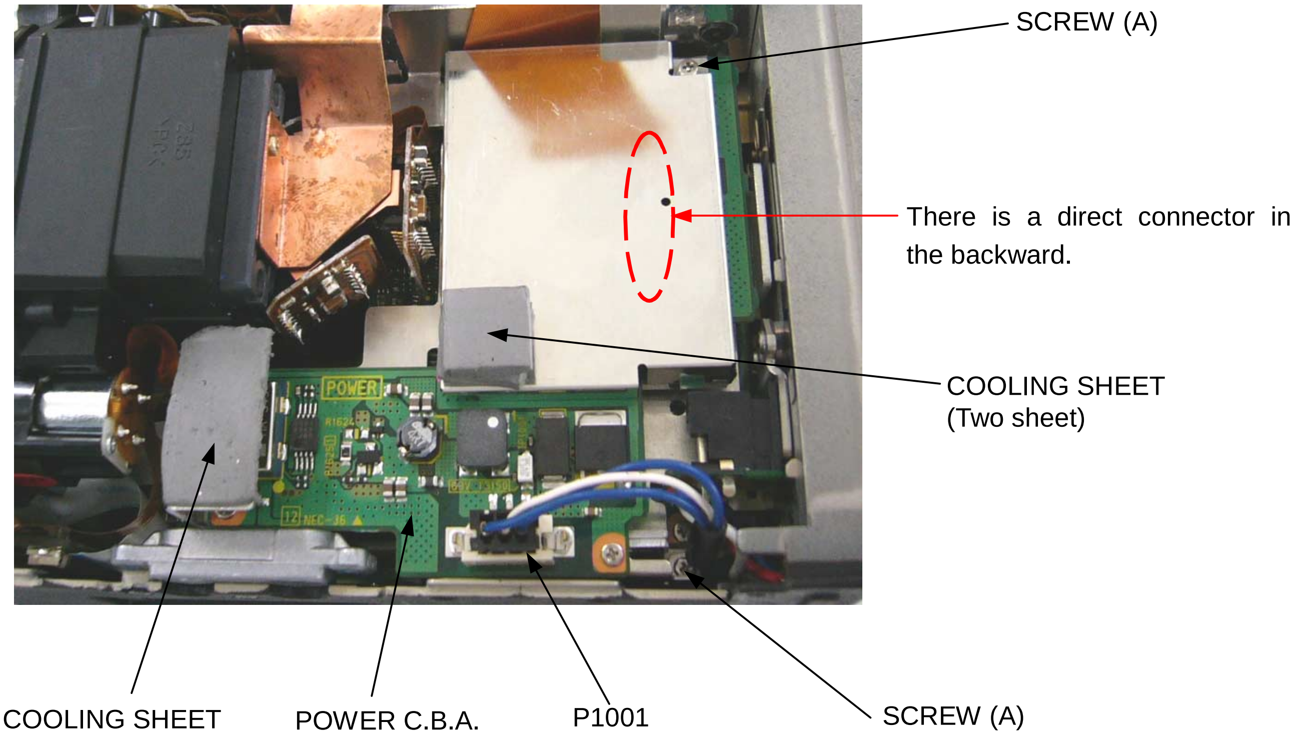

SCREW (A)
There is a direct connector in the backward.
COOLING SHEET
(Two sheet)
COOLING SHEET
POWER C.B.A.
P1001
SCREW (A)

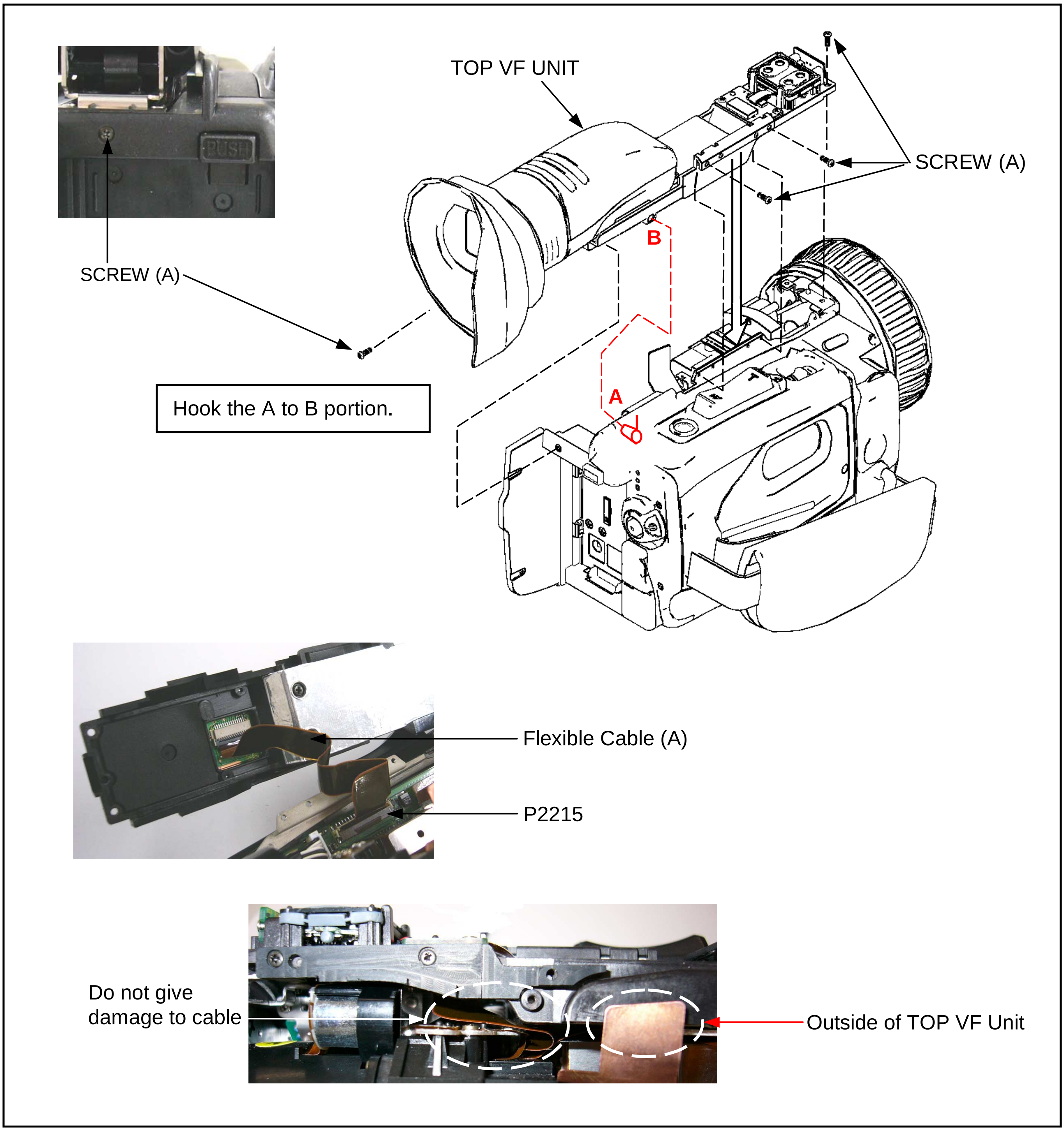
Figure 5-1

6. Removal of TOP VF Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Unscrew the 4 screws (A) as shown in figure 6-1.
4. Lift up the TOP VF and disconnect a connector P2215 on VTR C.B.A., then remove the TOP VF Unit as shown in figure 6-1. Then be careful because the portion A and B are hooked together.

(Note in installation)

1. In case the flexible cable (A) is changed to new one, bend it to Z character as shown in figure 6-1.
2. The CCD Heat Sink is located to outside of TOP VF Unit as shown in figure 6-1.



TOP VF UNIT
SCREW (A)
SCREW (A)
PUSH
B
A
Hook the A to B portion.
Flexible Cable (A)
P2215
Do not give damage to cable
Outside of TOP VF Unit

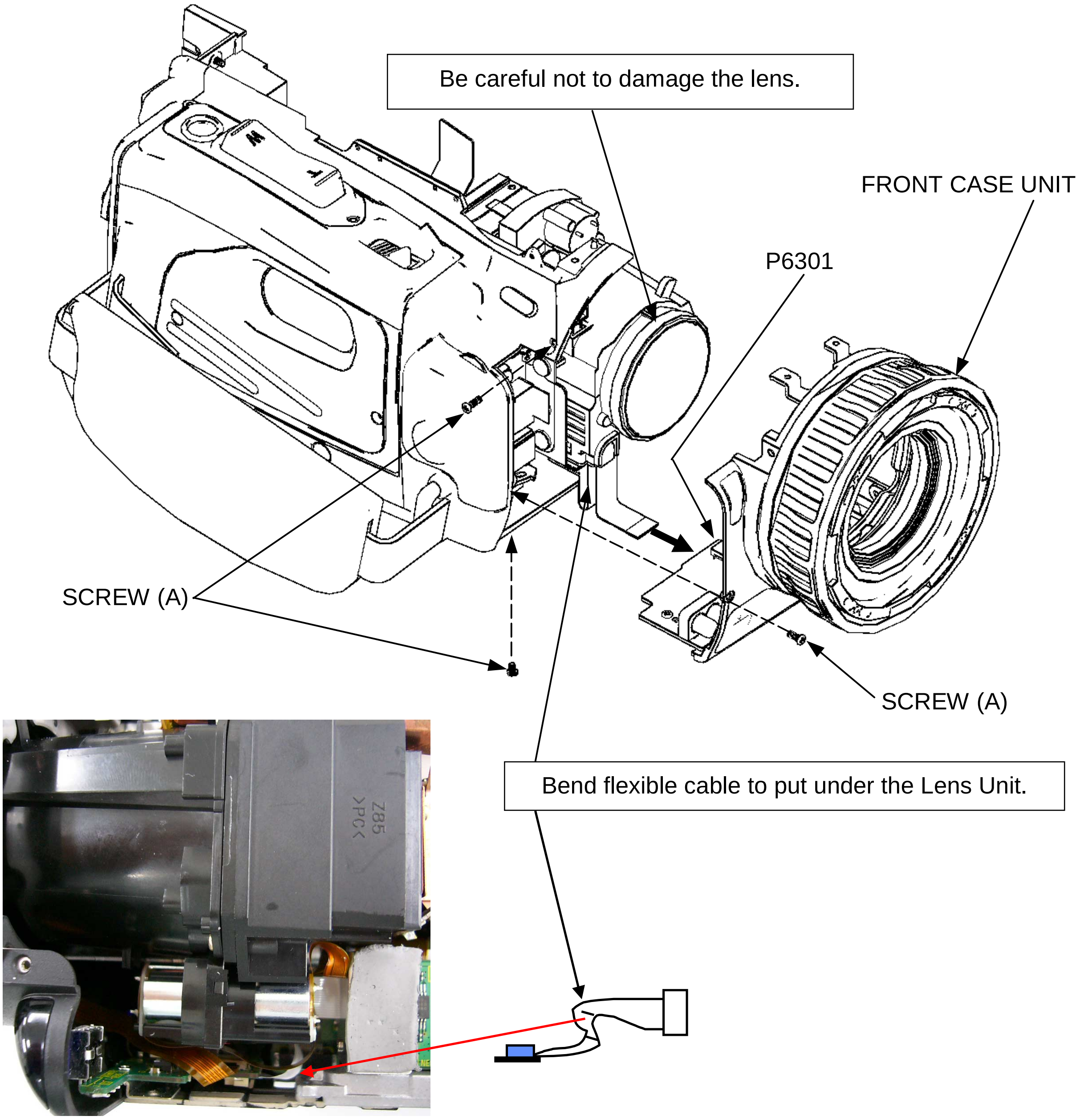
Figure 6-1

7. Removal of Front Case Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Remove the TOP VF Unit.
4. Unscrew the 3 screws (A) as shown in figure 7-1.
5. Disconnect a connector P6301 and remove the Front Case Unit as shown in figure 7-1.

(Note in installation)

1. When installing the Front Case Unit, do not give damage the Lens.
2. In case of the flexible cable (it connected with P6301 and CAMERA C.B.A.) is exchange to new one, bend it to Z character to put under the Lens Unit.


Be careful not to damage the lens.

Bend flexible cable to put under the Lens Unit.

Figure 7-1

8. Removal of Lens Unit

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of POWER C.B.A..
4. Removal of TOP VF Unit.
5. Removal of Front Case Unit.
6. Unscrew the 2 screws (A) and remove the CCD CON STOPPER as shown in figure 8-1.
7. Disconnect the connector P1 and P8 on CAMERA C.B.A. as shown in figure 8-1.
8. Unscrew the 4 screws (B) and remove the Lens Unit.
9. Unscrew the 4 screws (C) and remove the Lens Frame Unit from Lens Unit as shown in figure 8-1.

(Note in installation)

1. In case a new Lens Unit is installed, bend the flexible cable (A) to Z character as shown in figure 8-1.

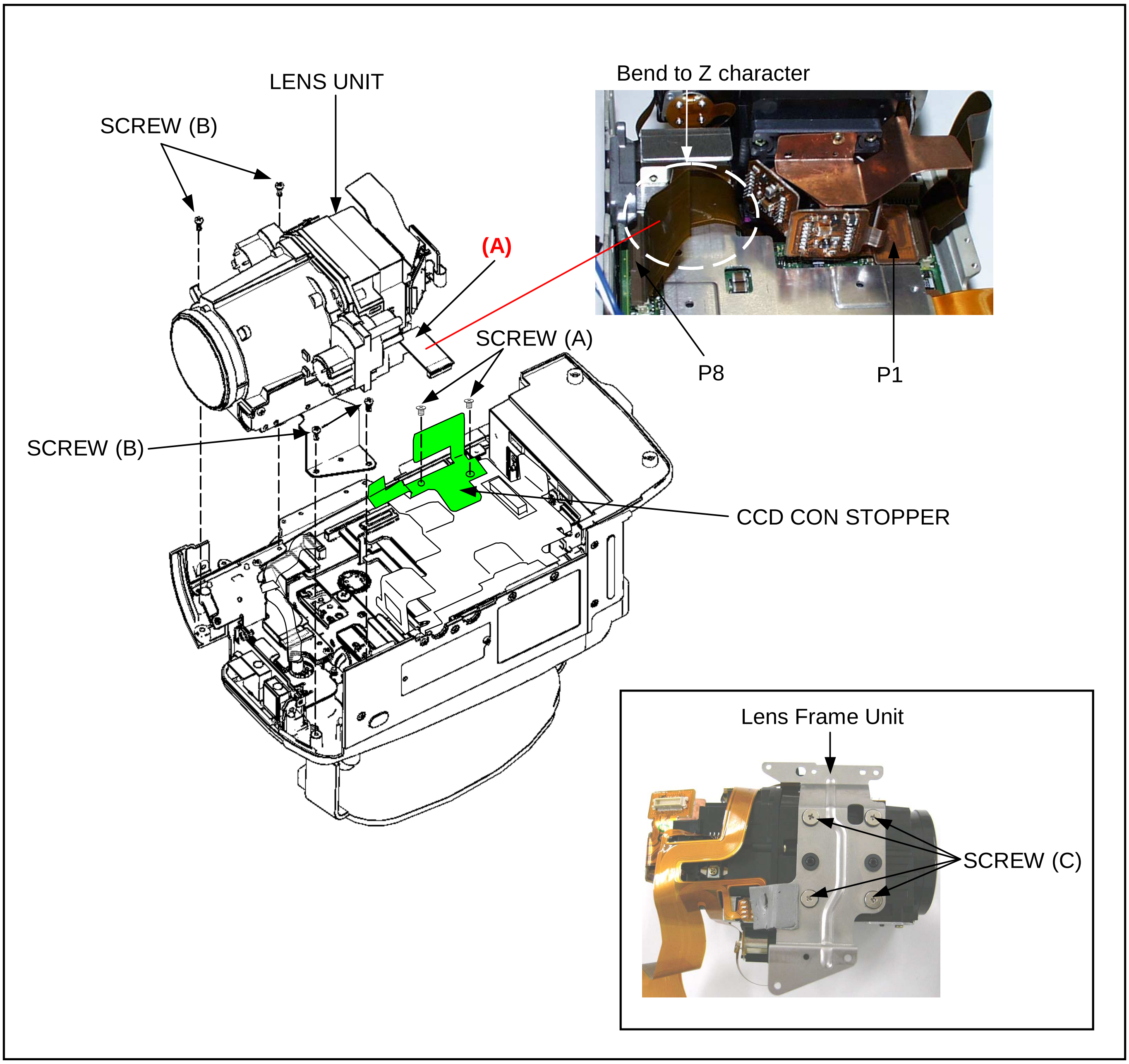

LENS UNIT
SCREW (B)
Bend to Z character
(A)
SCREW (A)
P8
P1
SCREW (B)
CCD CON STOPPER
Lens Frame Unit
SCREW (C)

Figure 8-1

9. Removal of Rear Case Unit & CAMERA C.B.A.

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of POWER C.B.A..
4. Removal of TOP VF Unit.
5. Removal of Front Case Unit.
6. Removal of Lens Unit.
7. Remove the 3 screws (A) as shown in figure 9-1.
8. Disconnect a connector P2 on CAMERA C.B.A. as shown in figure 9-1.
9. Unscrew the 2 screws (B) on CAMERA C.B.A. as shown in figure 9-1.
10. It shifts the Rear Case Unit as much as showing in figure 9-1 and remove the CAMERA C.B.A.. Be careful because the VTR C.B.A.(bottom side of CAMERA C.B.A.) and the connector in the CAMERA C.B.A are combined.
11. Disconnect a connector P2216 on VTR C.B.A. and remove the Rear Case Unit.

(Note in installation)

1. When installing the CAMERA C.B.A., Attach the CAMERA C.B.A. to portion “A” of Mech. Attachment Frame as shown in figure 9-1.
2. When installing the CAMERA C.B.A., the parts which are shown in figure 9-1 on the CAMERA C.B.A. are combined with the VTR C.B.A. with the direct connector, pushing CAMERA C.B.A. well.
3. When installing the Rear Case Unit, it puts section “B” in the hole of flexible cable, which is connected in P2216 as shown in figure 9-1.

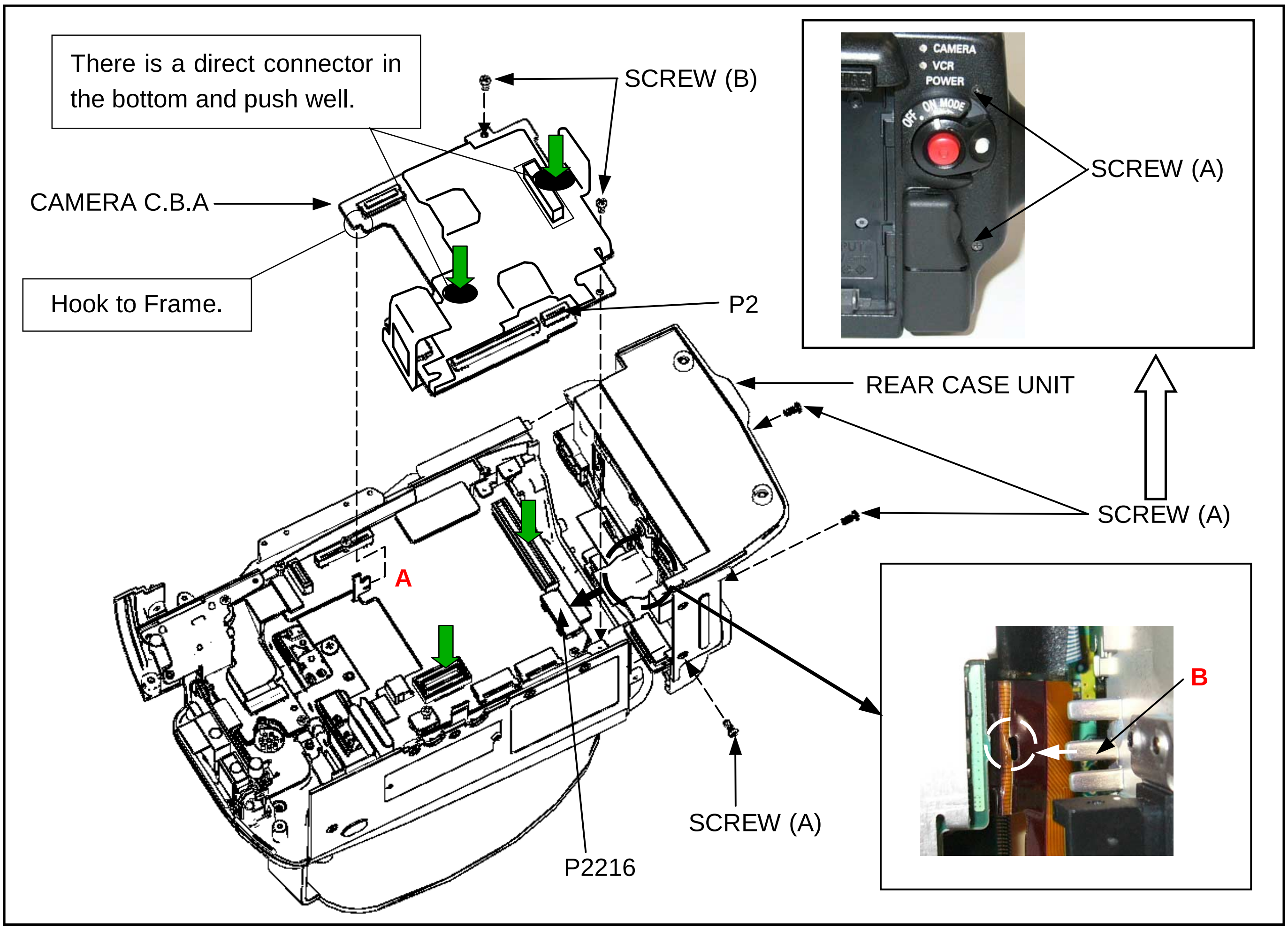

There is a direct connector in the bottom and push well.
SCREW (B)
CAMERA C.B.A
Hook to Frame.
P2
REAR CASE UNIT
SCREW (A)
SCREW (A)
A
SCREW (A)
P2216
B
CAMERA
VCR
POWER
OFF
ON
MODE

Figure 9-1

10. Removal of Cassette Cover Unit

1. Remove the MIC Case Unit.
2. Remove the Side case R Unit.
3. Remove the POWER C.B.A..
4. Remove the TOP VF Unit.
5. Remove the Front Case Unit.
6. Remove the Lens Unit.
7. Remove the Rear Case Unit and CAMERA C.B.A..
8. Unscrew the 2 screws (A) and remove the Cassette Cover Unit as shown in figure 10-1.

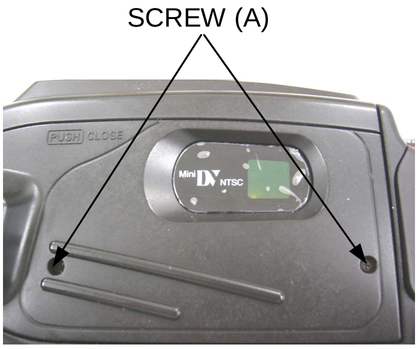

SCREW (A)
PUSH CLOSE
Mini DV NTSC

Figure 10-1

(Note in installation)

1. Pass flexible cable through the portion “A” as shown in figure 10-2.
2. Attach the “B” portion to “C” portion as shown in figure 10-2 and tighten the 2 screws (A).

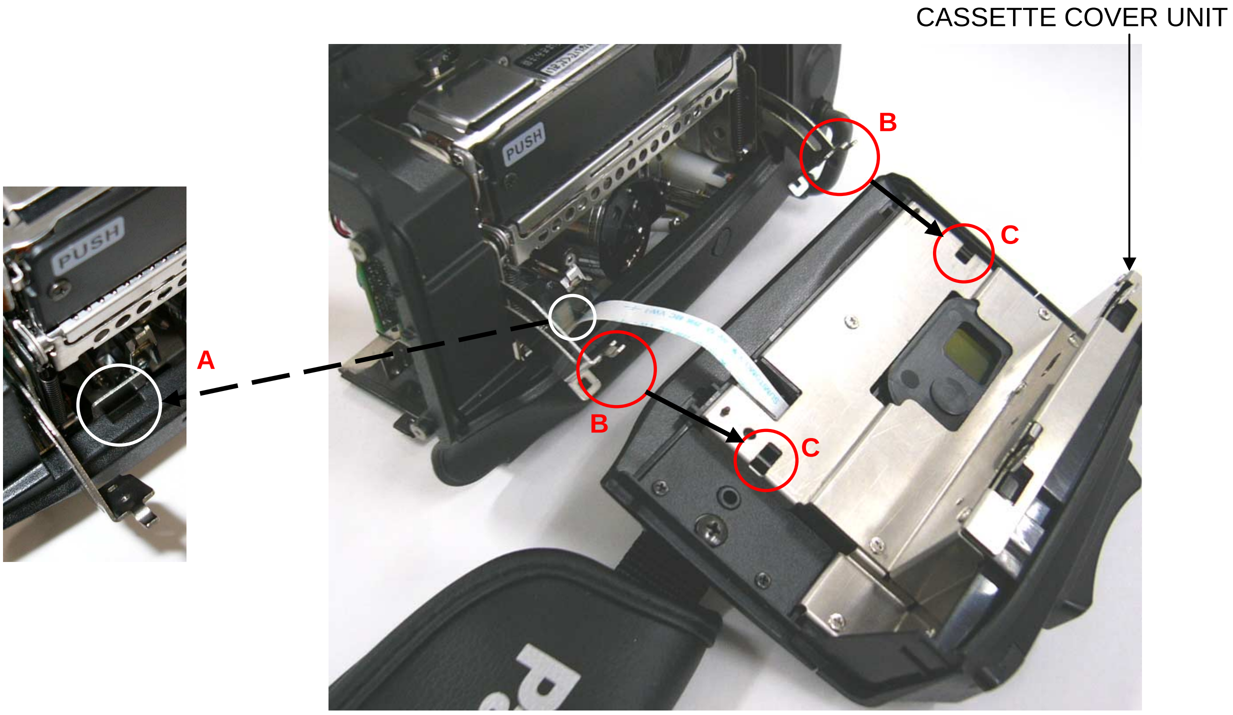

CASSETTE COVER UNIT
PUSH
A
B
C
B
C
PUSH

Figure 10-2

11. Removal of Mechanism Unit & VTR C.B.A.

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Remove the POWER C.B.A..
4. Remove the TOP VF Unit.
5. Remove the Front Case Unit.
6. Remove the Lens Unit.
7. Remove the Rear Case Unit and CAMERA C.B.A..
8. Remove the Cassette Cover Unit.
9. Disconnect the connector P2219 and P2222 on VTR C.B.A. as shown in figure 11-1.
10. Disconnect the connector P2217 on VTR C.B.A. and P4101 on SIDE JACK C.B.A., then remove the flexible cable (A) as shown in figure 11-1.
11. Unscrew the 6 screws (A) and remove the Unit (Mechanism & VTR C.B.A.) as shown in figure 11-1.

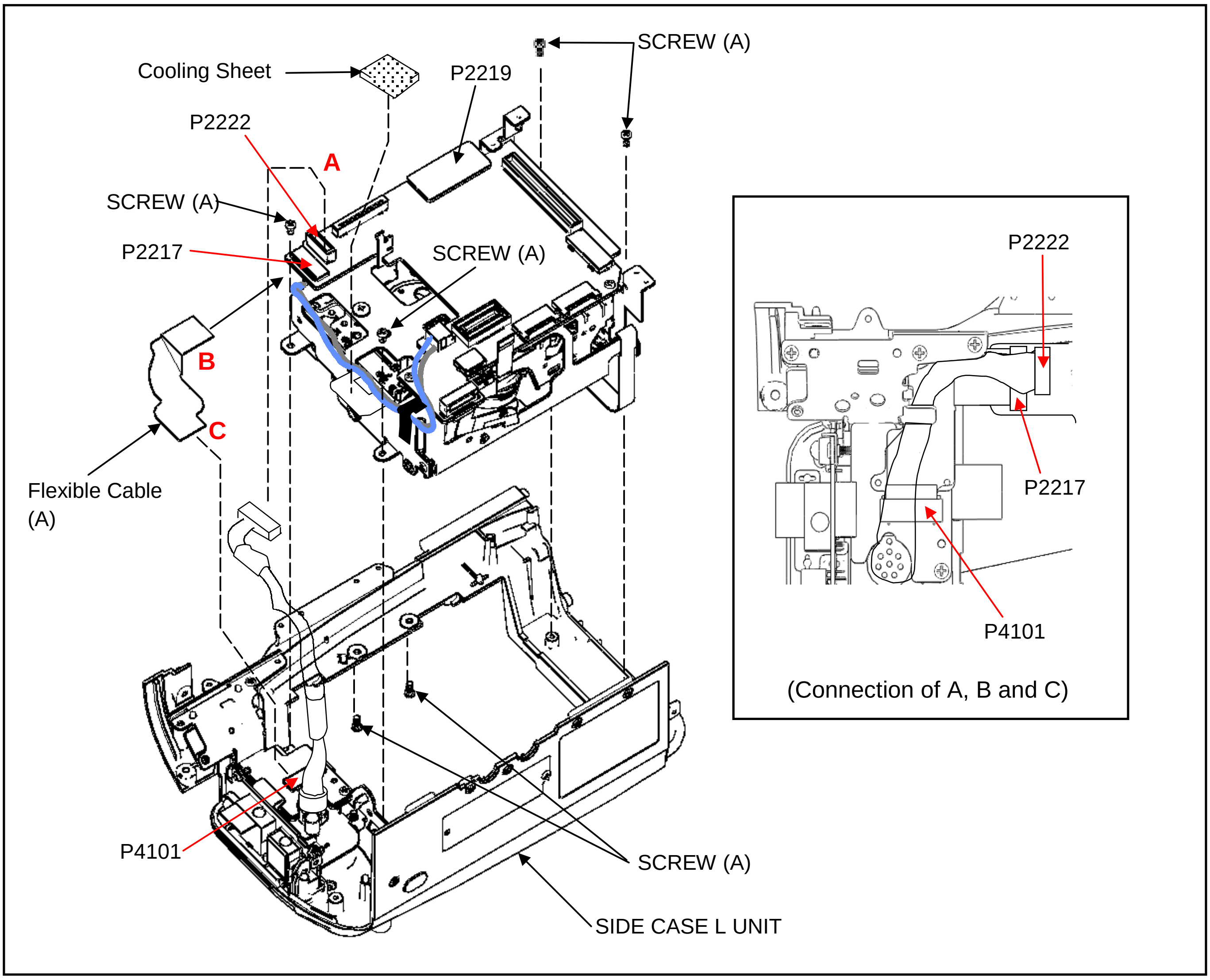

SCREW (A)
Cooling Sheet
P2219
P2222
A
SCREW (A)
P2217
SCREW (A)
B
C
Flexible Cable
(A)
P4101
SCREW (A)
SIDE CASE L UNIT
P2222
P2217
P4101
(Connection of A, B and C)

Figure 11-1

NOTE: MECH Attachment Frame requires replacement, make sure to move the Cooling Sheet to the new MECH Attachment Frame. See figure 11-1.

12. Disconnect the 7 connectors (A),(B),(C),(D),(E),(F) and (G) on VTR C.B.A. as shown in figure 11-2.

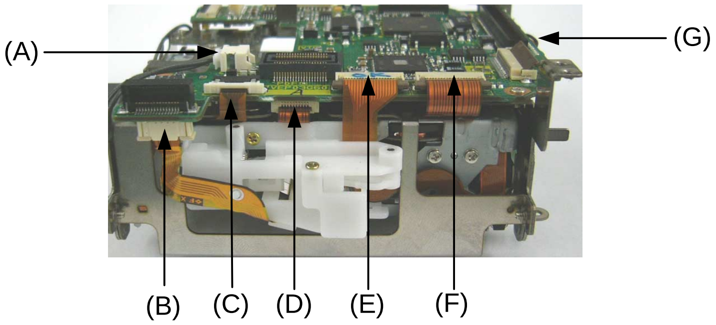


Figure 11-2

13. Unscrew the 2 screws (B) and remove the VTR C.B.A. as shown in figure 11-3.
14. Unscrew the 3 screws (C) and remove the Mechanism Unit from Mech. Attachment Frame Unit as shown in figure 11-3.
15. Unscrew the 2 screws (D) and remove the Garage Cover as shown in figure 11-3.

NOTE: In case a new Mechanism unit is installed, put the FPC Protection Sheet in the following position as shown in figure 11-3.

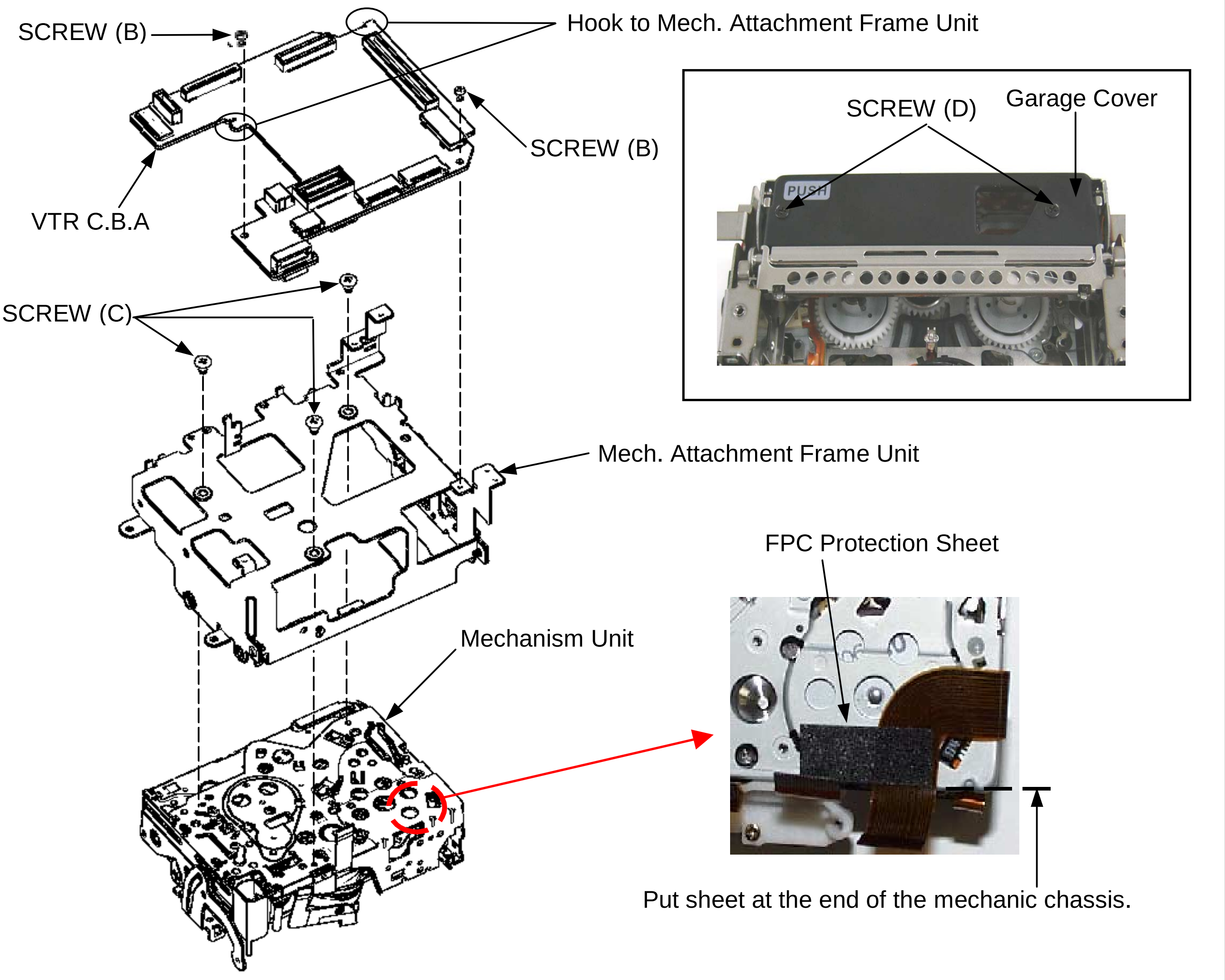

SCREW (B)
Hook to Mech. Attachment Frame Unit
SCREW (B)
VTR C.B.A
SCREW (D)
Garage Cover
PUSH
SCREW (C)
Mech. Attachment Frame Unit
FPC Protection Sheet
Mechanism Unit
Put sheet at the end of the mechanic chassis.

Figure 11-3

12. Removal of LCD Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Unscrew the 3 screws (A) and remove the HEAT SINK(SIDE R) as shown in figure 12-1.
4. Remove the FFC Protection Sheet as shown in figure 12-2.
5. Remove the Cooling Sheet to unscrew the screw (B) and unscrew the screw (B) and (C) as shown in figure 12-2.
6. Remove the HINGE COVER and unscrew the 2 screws (D) as shown in figure 12-3.
7. Disconnect connector P6404 on R SIDE C.B.A. and remove the LCD Unit as shown in figure 12-2.

(Note in installation)

1. When installing the FFC Protection Sheet, fully open the LCD Panel and Put on the original position as shown in figure 12-2.
2. Do not forget put on the Cooling Sheet after tightening the screw (B) as shown in figure 12-2.

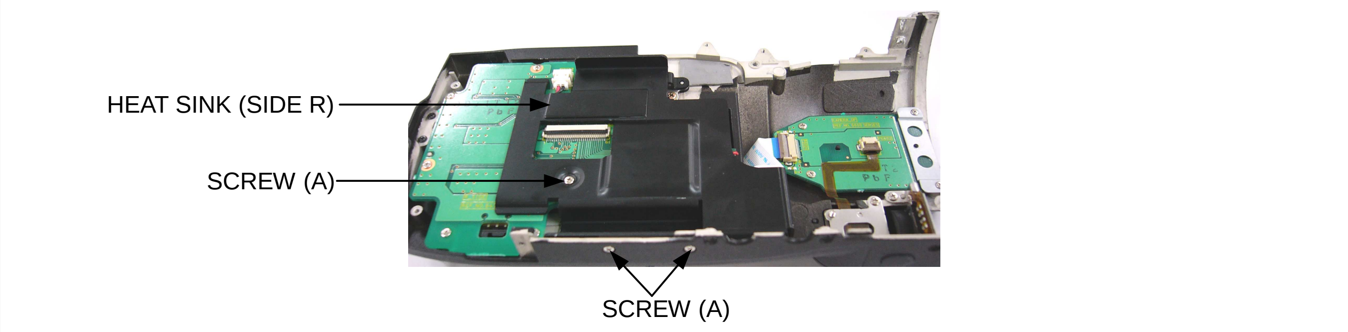

HEAT SINK (SIDE R)
SCREW (A)
SCREW (A)

Figure 12-1

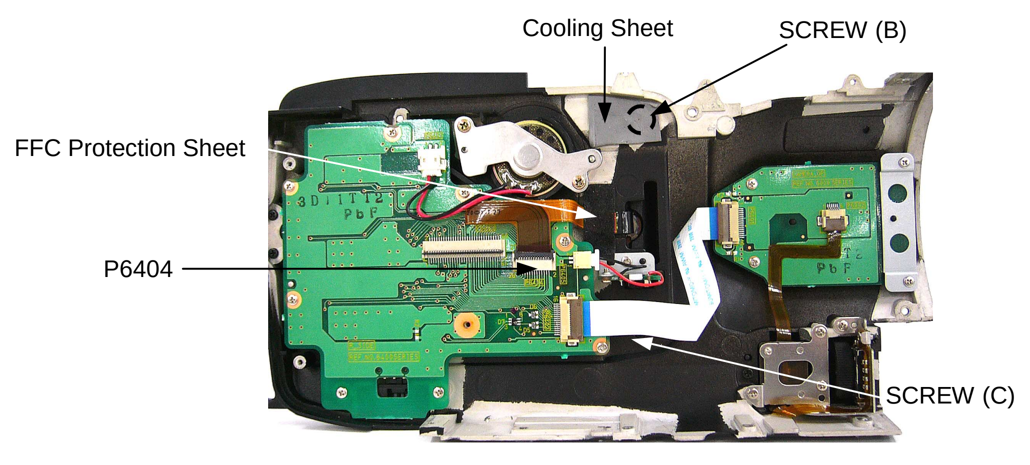

Cooling Sheet
SCREW (B)
FFC Protection Sheet
P6404
SCREW (C)

Figure 12-2

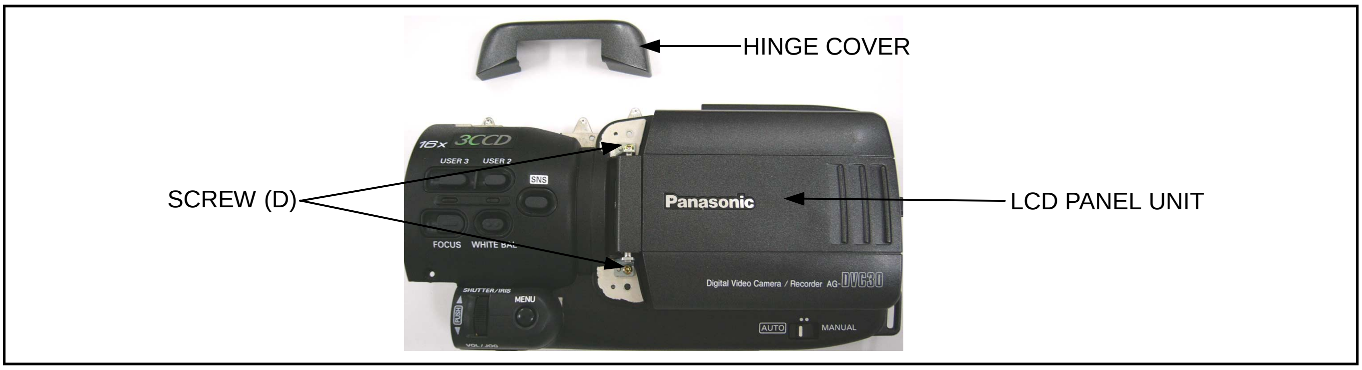

HINGE COVER
SCREW (D)
Panasonic
LCD PANEL UNIT

Figure 12-3

13. Removal of EVF Unit

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of TOP VF Unit.
4. Disconnect connector P1 on EVF CONNECT C.B.A. as shown in figure 13-1.
5. Unscrew the 4 screws (A) and remove the EVF Unit and EVF SLIDER Unit from EVF LCD HOLD Unit as shown in figure 13-2.
6. Unscrew the 3 screws (B) and remove the EVF SLIDE COVER as shown in figure 13-3.
7. Unscrew the 4 screws (C) and remove the EVF Unit from EVF SLIDER Unit as shown in figure 13-4.

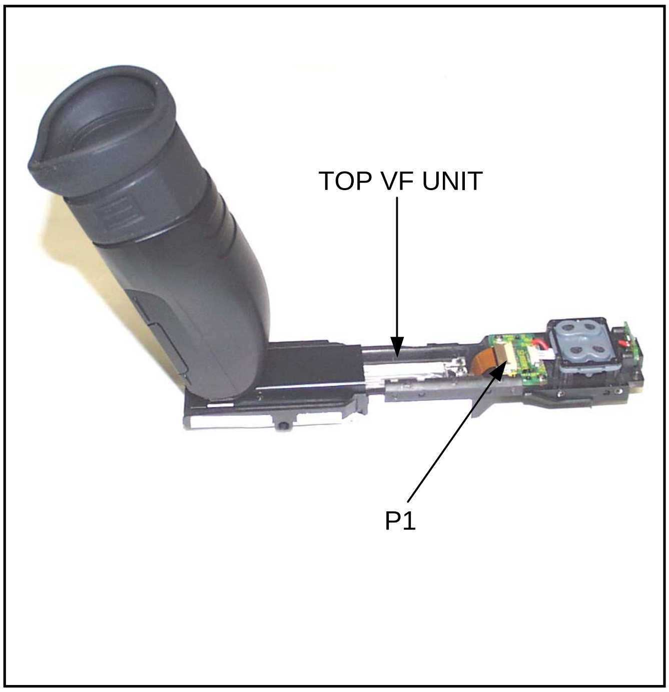

TOP VF UNIT
P1

Figure 13-1

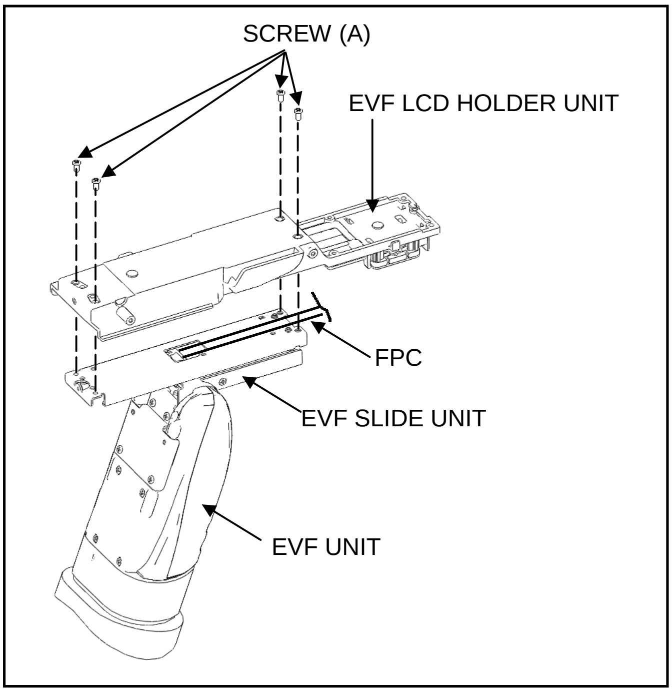

SCREW (A)
EVF LCD HOLDER UNIT
FPC
EVF SLIDE UNIT
EVF UNIT

Figure 13-2

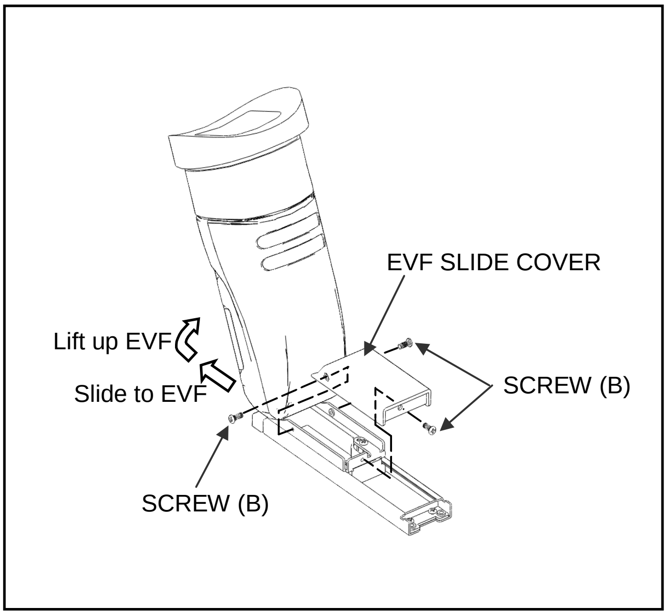

EVF SLIDE COVER
Lift up EVF
Slide to EVF
SCREW (B)
SCREW (B)

Figure 13-3

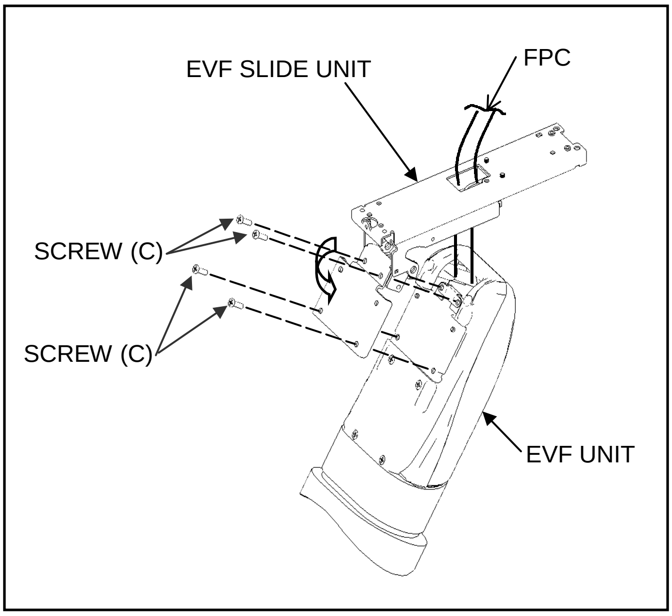

EVF SLIDE UNIT
FPC
SCREW (C)
SCREW (C)
EVF UNIT

Figure 13-4

AG-DVC30P				AG-DVC30E, DVC32EN, DVC33MC			
Ref. No.	**Parts No.**	**C.B.A.**	**Page**	**Ref. No.**	**Parts No.**	**C.B.A.**	**Page**
E1	VEP01952A	POWER	EPL-1	E1	VEP01952A	POWER	EPL-15
E2	VEP03G60A	VTR	EPL-3	E2	VEP03G60B	VTR	EPL-17
E3	VEP23598A	CAMERA	EPL-7	E3	VEP23598B	CAMERA	EPL-21
E4	VEP06F67A	FRONT	EPL-11	E4	VEP06F67A	FRONT	EPL-25
E5	VEP04861A	SIDE JACK FPC	EPL-11	E5	VEP04861A	SIDE JACK FPC	EPL-25
E6	VEP001G1A	SUB REC	EPL-11	E6	VEP001G1A	SUB REC	EPL-25
E7	VEP01957A	DC IN	EPL-11	E7	VEP01957A	DC IN	EPL-25
E8	VEP01953A	BATTERY	EPL-11	E8	VEP01953A	BATTERY	EPL-25
E9	VEP06F66A	ZOOM FPC	EPL-12	E9	VEP06F66A	ZOOM FPC	EPL-26
E10	VEP001E3A	ZOOM CON	EPL-12	E10	VEP001E3A	ZOOM CON	EPL-26
E11	VEP001E5A	CAS OPEN	EPL-12	E11	VEP001E5A	CAS OPEN	EPL-26
E12	VEP04863A	REAR JACK	EPL-12	E12	VEP04863A	REAR JACK	EPL-26
E13	VEP001E8A	R-SIDE FPC	EPL-12	E13	VEP001E8A	R-SIDE FPC	EPL-26
E14	VEP06F68A	R-SIDE	EPL-12	E14	VEP06F68A	R-SIDE	EPL-26
E15	VEP06F64A	CAMARA OP	EPL-12	E15	VEP06F64A	CAMARA OP	EPL-26
E16	VEP001E1A	LCD OPEN	EPL-12	E16	VEP001E1A	LCD OPEN	EPL-26
E17	VEP001E4A	TALLY	EPL-12	E17	VEP001E4A	TALLY	EPL-26
E18	VEP001E0A	EVF CON	EPL-12	E18	VEP001E0A	EVF CON	EPL-26
E19	VEP04828A	MIC U	EPL-13	E19	VEP04828A	MIC U	EPL-27
E20	VEP28272B	EVF A	EPL-13	E20	VEP28272B	EVF A	EPL-27
E21	VEP28275B	EVF B	EPL-13	E21	VEP28275B	EVF B	EPL-27
E22	VEP001G2A	MENU FPC	EPL-13	E22	VEP001G2A	MENU FPC	EPL-27
E23	VEP26257B	MONITOR	EPL-13	E23	VEP26257B	MONITOR	EPL-27

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

ELECTRICAL REPLACEMENT PARTS LIST

AG-DVC30P

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
■ E2	VEP03G60A	VTR C.B.A.	1	(RTL)
■ E3	VEP23598A	CAMERA C.B.A.	1	(RTL)
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
■ E6	VEP001G1A	SUB REC C.B.A.	1	(RTL)
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
C1001,02	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1004	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1005,06	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1007-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1011	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1012	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1021	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1022	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1041	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1042	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1051	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1052	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1053-55	F1G1H2210001	C.CAPACITOR CH 50V 220P	3	
C1057	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1058	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1061,62	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C1063,64	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071,72	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1102	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1103	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1106	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C1112	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1113	F1G1C333A004	C.CAPACITOR CH 16V 0.033U	1	
C1115	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1123	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1126	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1142	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1145	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1146	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1151	ECJ1ZB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1152	ECUX1E473KBV	C.CAPACITOR CH 25V 0.047U	1	
C1154	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1157	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1221-24	F1H1A105A028	C.CAPACITOR CH 10V 1U	4	
C1226,27	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1249	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1251,52	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	2	
C1253	F1H1E154A050	C.CAPACITOR CH 25V 0.15U	1	
C1271	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1273	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1322,23	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1328	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1341	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1342	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1343	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1344	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1503	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1603	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1604	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1605	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C1606	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1608	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1610	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1615	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1616	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1619	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1620	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1621	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1622	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1623	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1627,28	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C1635	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1636	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1901	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C1902	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C1911,12	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1925	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1927	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1929	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1931	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1003	NSD03A20	DIODE	1	
D1005	MA8130-M	DIODE	1	
D1011	B0JCMC000004	DIODE	1	
D1021	B0JCMC000004	DIODE	1	
D1041	B0JCMC000004	DIODE	1	
D1051	MA2YD1700L	DIODE	1	
D1052	MA2Z00100L	DIODE	1	
D1071	MA111	DIODE	1	
D1072	MA2Z00100L	DIODE	1	
D1101	MA8100-M	DIODE	1	
D1102	MA2S11100L	DIODE	1	
D1131	MA2S11100L	DIODE	1	
D1251	MAZ81800HL	DIODE	1	
D1252	MA2S11100L	DIODE	1	
D1528	MA2S11100L	DIODE	1	
D1602	B0JCMC000004	DIODE	1	
D1608	B0JCMC000004	DIODE	1	
D1610	MA2S11100L	DIODE	1	
D1681	B0ADDJ000011	DIODE	1	
D1682	MA2S11100L	DIODE	1	
D1683	MAZ80620HL	DIODE	1	
D1684	MA3S132E0L	DIODE	1	
D1685	B0BC4R200013	DIODE	1	
IC1001	C0DBAZZ00064	IC	1	
IC1321	C0CBCAC00061	IC	1	
IC1601	C0DBAZZ00064	IC	1	
IC1901	L2ES00000010	SENSOR UNIT	1	FOR VEP001G8A
IC1922	C0ABBA000077	IC	1	
IC1923	C0JBAS000063	IC	1	
⚠ IP1001	K5H3122A0022	FUSE	1	
⚠ IP1003	K5H8011A0004	FUSE	1	
L1001	G1C3R9MA0024	COIL 3.9UH	1	
L1005	J0JHC0000018	FILTER	1	
L1006	J0MAB0000060	FILTER	1	
L1011	G1C330MA0011	COIL 33UH	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1041	G1C330MA0011	COIL 33UH	1	
L1061	G1C330MA0085	COIL 33UH	1	
L1062	G1C181MA0024	COIL 180UH	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0072	COIL 4.7UH	2	
L1221	G1C4R7MA0072	COIL 4.7UH	1	
L1222	G1C4R7MA0073	COIL 4.7UH	1	
L1223,24	G1C4R7MA0076	COIL 4.7UH	2	
L1226,27	G1C4R7MA0073	COIL 4.7UH	2	
L1241	G1C4R7MA0072	COIL 4.7UH	1	
L1251-53	G1C100KA0055	COIL 10UH	3	
L1271,72	G1C100KA0055	COIL 10UH	2	
L1321,22	G1C4R7MA0076	COIL 4.7UH	2	
L1341,42	G1C4R7MA0073	COIL 4.7UH	2	
L1602	G1C331M00006	COIL 330UH	1	
L1604,05	G1C4R7MA0076	COIL 4.7UH	2	
L1609	A921CY-470M	FILTER	1	
L1610	J0JAC0000011	FILTER	1	
L1612	J0JAC0000011	FILTER	1	
L1901	G1C100K00019	COIL 10UH	1	
L1922,23	G1C100K00019	COIL 10UH	2	
P1001	K1KA03A00462	CONNECTOR (MALE)	1	
P1011	K1KA80A00037	CONNECTOR	1	
Q1003	B2ABGP000001	THYRISTOR	1	
Q1011	B1DHCC000035	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1021	B1DHCC000035	TRANSISTOR	1	
Q1022	B1DFCD000012	TRANSISTOR	1	
Q1041	B1DHCC000035	TRANSISTOR	1	
Q1042	B1DFCD000012	TRANSISTOR	1	
Q1051	B1DFCG000011	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1601,02	B1DHCC000035	TRANSISTOR	2	
Q1611	B1DHCC000035	TRANSISTOR	1	
Q1612	B1DFCD000012	TRANSISTOR	1	
QR1001	UNR9113J0L	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UNR911DJ0L	TRANSISTOR	1	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602,03	UN9213	TRANSISTOR-RESISTOR	2	
QR1681	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1005	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1017	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1047	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1052,53	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R1056,57	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	D0GD220JA003
R1058	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R1105	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1106	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1107	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1108,09	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	2	
R1111	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1115	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1117	ERJ2RKD680	M.RESISTOR CH 1/16W 68	1	
R1119	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1121	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1125	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1126	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1127	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1128,29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1141	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1145	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1146	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1147	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1148,49	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1151	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1152	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1153	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1154	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1157	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1158	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1159	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1241	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1251	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1503	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
⚠ R1524	K5H6312A0008	FUSE	1	
⚠ R1525	K5H1222A0008	FUSE	1	
⚠ R1526	K5H6312A0008	FUSE	1	
R1601	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R1602	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1603	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1605	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1607	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1608	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	1	
R1612	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1618	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1619	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1621	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
⚠ R1625	K5H1021A0004	IC	1	
R1627,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1630,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1634	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1635,36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1638	ERJ2RHD821	M.RESISTOR CH 1/16W 820	1	
R1639	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1640	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1641	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1681	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1682	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1901	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1912	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1925	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1926	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1928	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R1929	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1930	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
T1051	G5D1A0000033	TRANSFORMER	1	
		MISCELLANEOUS		
	VMP8005	POWER PCB HOLDER	1	
	VSC5590	POWER PCB SHIELD (L)	1	
	VSC5589	POWER PCB SHIELD (U)	1	
	XQN16+B3FN	SCREW	2	
	VMX3424	GYRO PCB SPACER	1	
■ E2	VEP03G60A	VTR C.B.A.	1	(RTL)
C600	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C605	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C606,07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C610	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C612	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	1	
C626	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C627	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C628	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C629	ECST0JY335Z	T.CAPACITOR CH6.3V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C633	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C666	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2002	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2003	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2004,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2007,08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2009,10	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2011	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2012	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2013-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2016	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2019	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2020,21	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2024	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2025	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C2028	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2041	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2047	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2053	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2054	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2055	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2063	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2072	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2201,02	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C2203	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2204	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C2205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2209	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C2212	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2213	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2216	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2217-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2221	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2222,23	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C2225	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2226	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2230	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2231	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C2232	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2243	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3004	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3005	F3G1A4760001	T.CAPACITOR CH 10V 47U	1	
C3006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3007	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3010-12	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3015	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3016	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3017	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3018	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3019	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3020,21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3024,25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3030	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3038	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3039	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3045	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3046,47	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3053	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3055	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3056	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3061	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102,03	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3104	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3112	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3114	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3116,17	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3118	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3123	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3124	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3125	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3127	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3130	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3131,32	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3134	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3135	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3136,37	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3201	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3202	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3203	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3204-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3210	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3212,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3221	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3229	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3252	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3253	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C3254	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3257	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3260	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3501-03	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3504,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3511	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3512,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C3516	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3520	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3521-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3556	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C3557	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C3563	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C3564	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3566	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3569	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3570	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4000,01	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4003,04	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C4005,06	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4007,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C4009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4010	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C4011,12	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C4013	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C4014	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C4015	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4017-20	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	4	
C4021,22	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4025,26	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4029,30	F3F1A226A008	T.CAPACITOR CH 10V 22U	2	
C5001	F3H1C4760008	T.CAPACITOR CH 16V 47U	1	
C5002,03	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	2	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C5021-24	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	4	
D1	B0JDAD000001	DIODE	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001	MA133	DIODE	1	
D2006	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA2S11100L	DIODE	1	
D2201	MA133	DIODE	1	
D3102,03	D4ED1220A006	VARISTOR	2	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLK000004	IC	1	
IC2005	C0ABAA000046	IC	1	
IC2007	C1ZBZ0002226	IC	1	
IC2008	C3EBGG000015	IC	1	
IC2011	C0CBAAA00016	IC	1	
IC2012	C0EBD0000171	IC	1	
IC2013	C0CBCAC00082	IC	1	
IC2014	C0CBABC00137	IC	1	
IC2201	C1AB00001752	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZJ000005	IC	1	
IC3005	C1BB00000820	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C0ZBZ0000830	IC	1	
IC3009	C0CBAAE00016	IC	1	
IC3201	C1AB00001695	IC	1	
IC3202	C1AB00001612	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	C0ABAA000046	IC	1	
IC3503	C1AB00000647	IC	1	
IC4000,01	TA75W01FU	IC	2	
IC4002	C0ZBZ0000043	IC	1	
IC4003,04	TA75S01F	IC	2	
IC4005	TC4W53FU	IC	1	
IC4008	TC4W53FU	IC	1	
IC5001	AN3732FJMEFV	IC	1	
L601	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2002	VLQ0807K220	COIL 22UH	1	G1C220K00016
L3006	G1C100MA0060	COIL 10UH	1	
L3009	G1C100KA0055	COIL 10UH	1	
L3011-14	G1C100KA0055	COIL 10UH	4	
L3015	G1C101KA0055	COIL 100UH	1	
L3017	G1C470MA0072	COIL 47UH	1	
L3018	G1C100K00019	COIL 10UH	1	
L3021-23	G1C100KA0055	COIL 10UH	3	
L3204	G1C101KA0055	COIL 100UH	1	
L3206	G1C100KA0055	COIL 10UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3501	G1C100KA0055	COIL 10UH	1	
L3505-09	G1C330K00017	COIL 33UH	5	
L4000	G1C100MA0060	COIL 10UH	1	
L5001	G1C101KA0055	COIL 100UH	1	
L5002,03	G1C100MA0060	COIL 10UH	2	
LB3001	J0JAC0000014	FILTER	1	
LB3003,04	J0JAC0000014	FILTER	2	
LB3006	J0JAC0000014	FILTER	1	
LB3201	J0JAC0000014	FILTER	1	
LB3203	J0JAC0000014	FILTER	1	
LB3205	J0JAC0000014	FILTER	1	
LB3502,03	J0JBC0000012	FILTER	2	
P2200	K1KBC0A00028	CONNECTOR (FEMALE)	1	
P2201	K1KB40A00131	CONNECTOR (FEMALE)	1	
P2210	K1MN08A00032	CONNECTOR	1	
P2211	K1MN08B00040	CONNECTOR	1	
P2212,13	K1MN18B00049	CONNECTOR	2	
P2214	K1MN10B00062	CONNECTOR	1	
P2215	VJS3826C030	CONNECTOR (FEMALE)	1	
P2216	VJS3791D024	CONNECTOR (FEMALE)	1	K1MN24B00012
P2217	K1MN33B00023	CONNECTOR	1	
P2219	K1KB60A00122	CONNECTOR (FEMALE)	1	
P2220	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2221	K1KA02B00053	CONNECTOR (MALE)	1	
P2222	K1KA08A00267	CONNECTOR (MALE)	1	
P2224	K1KB30B00014	CONNECTOR (FEMALE)	1	
Q601	B1ADGD000005	TRANSISTOR	1	
Q602	B1ADBE000001	TRANSISTOR	1	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2001	2SB0970X0L	TRANSISTOR	1	
Q2002	2SA202100L	TRANSISTOR	1	
Q2003	2SD182000L	TRANSISTOR	1	
Q2004	B1CHHD000003	TRANSISTOR	1	
Q2007	B1ACGD000006	TRANSISTOR	1	
Q3101-03	B1ABBE000002	TRANSISTOR	3	
Q3501	B1ACGD000006	TRANSISTOR	1	
Q3503	XP0460100L	TRANSISTOR	1	
Q3504	2SB1218AHL	TRANSISTOR	1	
Q3505	B1ABBE000002	TRANSISTOR	1	
Q3506	XP0460100L	TRANSISTOR	1	
Q4000,01	2SD1819A-R	TRANSISTOR	2	
Q4002	2SD1824	TRANSISTOR	1	
Q4003,04	XP0121300L	TRANSISTOR	2	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR321F00L	TRANSISTOR	1	
QR2003	UNR321F00L	TRANSISTOR	1	
QR2006,07	XP0411500L	TRANSISTOR	2	
QR2012	XP0431N00L	TRANSISTOR	1	
QR3104	UNR221300L	TRANSISTOR	1	
QR3502	B1GBBEKK0001	TRANSISTOR	1	
R601	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R602	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R604	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R632	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R636	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R648-50	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R651	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R657	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R658	ERJ2RMJ331	M.RESISTOR CH 1/16W 330	1	
R2001,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2006	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2008	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2009	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2011	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2012	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2013	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2014	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2016,17	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2019	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2022-24	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2026	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2027	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2029	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2030	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2031	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2032	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2037	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2039	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2040	ERJ8GEYG680	M.RESISTOR CH 1/8W 68	1	
R2041	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2045	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2047,48	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2054	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2055	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2057	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2060	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2061	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2065	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R2066	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2067	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2068	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R2069	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2074	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2078	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2080	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R2083	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2089	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2095	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2096	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2099,00	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2101	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2104	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2114,15	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2128	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2129	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2130	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2131	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136,37	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2140	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2141	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2143	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2144	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R2146	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2151	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2153	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2155	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2161	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2163	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2199	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2201	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2202	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R2204	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2205,06	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2207	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2210	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2211	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2212	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2213	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2214	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2218	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2219	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2220	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2222	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2226	ERJ8GEYJR68	M.RESISTOR CH 1/8W 0.68	1	
R2227	EXB24V102J	COMBI.R-R 1K	1	
R2647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2649-51	EXB24V473J	COMBI.R-R 47K	3	
R2653,54	EXB24V473J	COMBI.R-R 47K	2	
R2655-61	EXB24V102J	COMBI.R-R 1K	7	
R2662	EXB24V473J	COMBI.R-R 47K	1	
R2663-66	EXB24V102J	COMBI.R-R 1K	4	
R2667	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2669	EXB24V473J	COMBI.R-R 47K	1	
R2671,72	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3003,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3010,11	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-25	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R3026	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3101	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2RMJ473	M.RESISTOR CH 1/16W 47K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3135	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3139	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3140,41	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3156,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3158,59	EXB24V473J	COMBI.R-R 47K	2	
R3170	EXB24V102J	COMBI.R-R 1K	1	
R3171	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3176	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3179,80	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3181,82	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3201	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R3202	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3203	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3204	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3205	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3206	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3207	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3208,09	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3210	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
R3211,12	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3234	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3260	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3514	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3516	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3549	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3550	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3553	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3554	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3570	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4000-03	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	4	
R4004,05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4006-09	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R4010,11	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4012,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4014,15	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	2	
R4016,17	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	2	
R4018-21	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4022,23	ERJ3RBD623	M.RESISTOR CH 1/16W 62K	2	
R4024,25	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4032	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4033	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4034,35	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4036	EXB24V473J	COMBI.R-R 47K	1	
R4037	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4038,39	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4042,43	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	2	
R4044,45	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R4046-49	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4050,51	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4052	EXB24V473J	COMBI.R-R 47K	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5013,14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6901,02	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R9007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9010,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R9014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9023	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9029	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R9031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TP9001	EYF6CU	TEST POINT	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
X2003	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	EYF6CU	TEST POINT	2	
■ E3	VEP23598A	CAMERA C.B.A.	1	(RTL)
C100	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102-07	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C112-14	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	3	
C115-17	ECST1EY155	T.CAPACITOR CH 25V 1.5U	3	
C121-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C127	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C128	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C129,30	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132,33	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C134	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C135	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C136-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C139-44	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C145-50	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C152-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C155-57	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C727,28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C737	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C738	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C747	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C750	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757-59	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C763	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C785	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C786-88	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C789	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C798	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C807	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C900	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C901	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C902	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C903	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C927	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C928	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C929	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C930	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C932	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C933	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C934	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C935	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C936	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C937	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C938	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C940	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C941	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1002,03	F3F1A226A001	T.CAPACITOR CH 10V 22U	2	
C1004	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1010-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1017	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1018-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1027,28	ECST1EX475	T.CAPACITOR CH 25V 4.7U	2	
C1029	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1030-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C1035	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1036-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1039	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1043	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1045	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1046	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1048	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1049	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1051,52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1053	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1054	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1055	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C1056-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1062,63	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C1064,65	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	2	
C1067	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1069,70	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1079	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1084	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1085	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1086-88	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1089	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1090-92	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1093	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1094	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1601	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1602	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1603	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1604	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1605	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1606	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1651	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1652	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1653	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1655	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1656	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1657	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1660,61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C2001	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2003,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2007	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2008-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2011,12	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	2	
C2013	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3000	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3001	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3004-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3007	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C3008	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3020	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3021	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C3022	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3023	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3024	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3025	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3026	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C3030	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3031	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3032	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3034	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4112	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4124	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1001	MA3S132A0L	DIODE	1	
D1601	MA3S132E0L	DIODE	1	
D3000	B0JCDD000002	DIODE	1	
IC1	C0CBABC00094	IC	1	
IC2	NJM431U	IC	1	C0DBEZC00003
IC104-06	C1AB00001677	IC	3	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC710	C0GBG0000028	IC	1	
IC711	C0CBADC00034	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	
IC719	C0CBADC00034	IC	1	
IC927	C0ABCA000053	IC	1	
IC928	C0ABAA000043	IC	1	
IC929	C0CBADC00034	IC	1	
IC1000	C1ZBZ0002385	PLD	1	
IC1001	C0JBAB000004	IC	1	
IC1002	C0JBAF000162	IC	1	
IC1003	C0JBAB000003	IC	1	
IC1004-06	TC7SH32FU	IC	3	
IC1007	C0JBAE000140	IC	1	
IC1008	C0JBAA000102	IC	1	
IC1010	TC7SH04FU	IC	1	
IC1011	C0JBAA000102	IC	1	
IC1013	C0JBAD000071	IC	1	
IC1014	TC7SH32FU	IC	1	
IC1015,16	C0JBAB000543	IC	2	
IC1022,23	UPD16510GR	IC	2	
IC1024	C0JBAA000182	IC	1	
IC1025	C0JBAE000140	IC	1	
IC2000	MN7GD02B5DB	IC	1	
IC2002	TC7W74FU	IC	1	
IC2003	C0JBAF000162	IC	1	
IC3000	TC7SH04FU	IC	1	
IC3001	C0FBAF000029	IC	1	
IC3002,03	TC7SH14FU	IC	2	
IC3005	C0JBAA000102	IC	1	
IC3006	C3EBHC000015	IC	1	
IC3500	MN103S33NSA	IC	1	
IC4105	C0ABAA000046	IC	1	
L100-02	VLQ0807K100	COIL 10UH	3	G1C100K00024
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703	VLQ0807K100	COIL 10UH	1	G1C100K00024
L708,09	VLQ0807K100	COIL 10UH	2	G1C100K00024
L900	VLQ0807K100	COIL 10UH	1	G1C100K00024
L927	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1000,01	G1C100K00025	COIL 10UH	2	
L1002	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1003	G1C100KA0004	COIL 10UH	1	
L1006	VLQ0807K100	COIL 10UH	1	G1C100K00024
L2000	VLQ0807K100	COIL 10UH	1	G1C100K00024

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L2001	G1C4R7MA0031	COIL 4.7UH	1	
L2003	G1C100K00019	COIL 10UH	1	
L3001	VLQ0807K100	COIL 10UH	1	G1C100K00024
L4104	G1C100K00019	COIL 10UH	1	
P1	K1KA40A00217	CONNECTOR (MALE)	1	
P2	K1KAC0A00023	CONNECTOR (MALE)	1	
P3	K1MN20B00028	CONNECTOR	1	
P4	K1MN10A00045	CONNECTOR	1	
P5	VJP3949A080H	CONNECTOR (MALE)	1	
P6	K1KA40A00216	CONNECTOR (MALE)	1	
P7	VJS3791D016	CONNECTOR (FEMALE)	1	
P8	VJS3826C050	CONNECTOR (FEMALE)	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q702	B1ADGD000005	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q927	2SD2216J0L	TRANSISTOR	1	
Q928	2SD0601A0L	TRANSISTOR	1	
Q1601	2SB1462J0L	TRANSISTOR	1	
Q1602	XP1501	TRANSISTOR-RESISTOR	1	
Q1603	2SD1819A-R	TRANSISTOR	1	
Q1604	2SB1462J0L	TRANSISTOR	1	
Q1605	2SD2216J0L	TRANSISTOR	1	
Q1606	2SB1462J0L	TRANSISTOR	1	
Q1651	2SD2216J0L	TRANSISTOR	1	
Q1652	XP1401	TRANSISTOR-RESISTOR	1	
Q1653	2SB1218A-R	TRANSISTOR	1	
Q1654	2SD2216J0L	TRANSISTOR	1	
Q3000	XN0460100L	TRANSISTOR-RESISTOR	1	
Q3001	2SD1979	TRANSISTOR	1	
QR701	UN9211	TRANSISTOR-RESISTOR	1	
QR705	UN9211	TRANSISTOR-RESISTOR	1	
QR708,09	UN9213	TRANSISTOR-RESISTOR	2	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602	UNR9111J0L	TRANSISTOR	1	
QR1651	UN9213	TRANSISTOR-RESISTOR	1	
QR3000,01	UNR9215J0L	TRANSISTOR	2	
QR3002	B1GDBEJG0002	TRANSISTOR	1	
R1,R2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R100-02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R110-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R709	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R719	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R728	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R737	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R738	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R746	ERJ2GEJ155	M.RESISTOR CH 1/16W 1.5M	1	
R747	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R748	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R749	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R754	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R755	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R760	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R765	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R779	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R780	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R781	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R793	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R794	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R798	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R803,04	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R805	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R807	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R809	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R810	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R823	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R825	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R901	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R903	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R904-06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R909	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R911	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R927	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R928	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R929	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R930	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R931,32	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R933	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R934	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R935	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R936	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R937	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R938	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R939,40	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R941	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R942	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R943	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R944	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R945	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R946	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R947	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R948	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R949	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R954	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R979	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R980	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R990	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R992	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1020	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1056	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1167	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1175	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1178,79	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R1182	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1183	ERJ2RMJ391	M.RESISTOR CH 1/16W 390	1	
R1185	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1191	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1194	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1195,96	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1198,99	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1200	ERJ2GEJ270	M.RESISTOR CH 1/16W 27	1	
R1201-07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R1601	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1602	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1603	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1604	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1607	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1608	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1609	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1610	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1612	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
R1613	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1614	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R1615	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1616	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1617	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1618	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1620	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1651	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1652	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1653	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1654	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1655	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1657	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1658	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1659	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1660	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1662	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1663	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
R1664	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R1666	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1667	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1669,70	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1673	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R2006,07	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2009	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2010,11	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2014	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2022	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2029,30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2096	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3012,13	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3014-16	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3017	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3019	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3020-22	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R3023	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3024	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3026	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3031	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3032	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R3033	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3034,35	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3036,37	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	2	
R3038	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3039	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3040	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3041-44	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R3046	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3049	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3051	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3055	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3057	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3059	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3060	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3061	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3062	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3063,64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3078	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3083,84	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3089	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3091	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3095	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3109,10	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3116	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3118	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3154	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3156	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3157	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3158	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3163	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3164	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3165	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3166,67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3168,69	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3170-73	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R3175	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3178	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3179	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3181	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3183	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3184	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R3185	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R3186	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3187	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3188	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3190	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3191,92	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3195	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3198,99	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3207	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3210	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3211	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4115-18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4119,20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4156	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4157	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4166-71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R4173	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X1000	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X3000	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5623	CAMERA PCB HEAT SINK (L)	1	
	VSC5624	CAMERA PCB HEAT SINK (U)	1	
	VGQ8094	COOLING SHEET CR	1	
	VGQ8096	COOLING SHEET_C2	1	
	VGQ8097	COOLING SHEET_C3	5	
	XQN16+B3FN	SCREW	2	
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
C6301	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6302	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C6303	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C6304	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C6306,07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	
C6308	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6310	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6312	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6313	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6314	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D6301,02	B3EA00000029	LED	2	
IC6301	B3MAZ0000028	PHOTO DETECTOR	1	
IC6302	L2ES00000011	SENSOR UNIT	1	
IC6303	C0ABBA000077	IC	1	
IC6304	C0JBAS000063	IC	1	
L6301-03	G1C100K00019	COIL 10UH	3	
P6301	VJS3791D016	CONNECTOR (FEMALE)	1	
P6302	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R6301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6306,07	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R6308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6310	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8013	FRONT PCB BASE	1	
	VJF1495	LED HOLDER	1	
	XQN16+B3FN	SCREW	3	
	XQN16+B4FN	SCREW	1	
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
C4101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4102,03	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C4104	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4105-08	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	4	
C4109,10	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C4111,12	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4113	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4115	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
D4101	MA132WA	DIODE	1	
D4102	MA2SD2400L	DIODE	1	
D4103	B3GA00000041	DIODE	1	
J4101	K2HZ104A0002	S TERMINAL JACK	1	
J4102	K2HC106B0010	AC POWER PLUG	1	
J4103	K2HC107B0003	AC POWER PLUG	1	
L4101	J0JBC0000054	FILTER	1	
L4102-04	J0JAC0000014	FILTER	3	
L4105,06	J0JBC0000054	FILTER	2	
L4107	J0JAC0000014	FILTER	1	
L4108-12	J0JAC0000015	FILTER	5	
L4113	J0JCC0000119	FILTER	1	
L4114	J0JAC0000015	FILTER	1	
P4101	K1MN33B00023	CONNECTOR	1	
Q4101	2SD103000L	TRANSISTOR	1	
Q4102	B1ABBE000002	TRANSISTOR	1	
Q4103	2SD2216J0L	TRANSISTOR	1	
Q4104	2SB1462J0L	TRANSISTOR	1	
Q4105	2SD2216J0L	TRANSISTOR	1	
Q4106	2SB1462J0L	TRANSISTOR	1	
Q4107	2SD1819A-R	TRANSISTOR	1	
QR4101	B1GDBEHH0001	TRANSISTOR	1	
R4101	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4102	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4104	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4105	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R4106	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4109	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4111	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4113	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4114	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4116	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4117	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4118	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4119	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4120	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4121	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4123	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4124	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4131-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
TH4101	D4CC11030012	THERMISTOR	1	
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
		MISCELLANEOUS		
	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA03B00102	CONNECTOR (MALE)	1	
R1	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
SW201	EVQQW101M	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
D1	MA142K	DIODE	1	
P1	K1MN06B00077	CONNECTOR	1	
P2	K1MN10B00052	CONNECTOR	1	
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
SW501	K0L1BB000022	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z34	CAS OPEN HARNESS	1	
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
J4301	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
J4302	K2YZ04000016	PLUG AND JACK	1	
J4303	K2HC106B0010	AC POWER PLUG	1	
L4301,02	VLF1315A102	FILTER	2	J0JHC0000015
L4304,05	J0MAB0000110	FILTER	2	
L4306	VLF1394	FILTER	1	J0MAB0000077
P4301	K1MN10B00052	CONNECTOR	1	
P4302	VJS3801D024	CONNECTOR (FEMALE)	1	
R4301,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4304,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8003	REAR P.C.B.FIX ANGLE	1	
	XQN16+B4FN	SCREW	2	
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA60A00148	CONNECTOR (MALE)	1	
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
B6401	VSB0407	BATTERY	1	
C6402-06	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
D6401	B0JDAD000001	DIODE	1	
D6402	MA3S781D0L	DIODE	1	
D6403,04	B0JDAD000001	DIODE	2	
D6405,06	MA3S781D0L	DIODE	2	
D6407	B0JDAD000001	DIODE	1	
P6401	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P6402	VJS3791D016	CONNECTOR (FEMALE)	1	
P6403	K1MN61B00001	CONNECTOR	1	
P6404	K1MN27B00053	CONNECTOR	1	
P6405	K1KA02B00053	CONNECTOR (MALE)	1	
R6401	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
SW6401-05	EVQPLPA08	SWITCH	5	
SW6406-13	K0H1BA000442	SWITCH	8	
SW6414	K0D112B00055	SWITCH	1	
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
P6001	VJS3791D016	CONNECTOR (FEMALE)	1	
P6002	K1MN06B00013	CONNECTOR	1	
SW6001-05	EVQPLPA08	SWITCH	5	
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
SW101	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z35	LCD OPEN HARNESS	1	
	VMP8017	LCD SW ANGLE	1	
	XQN16+B3FN	SCREW	1	
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
D401	B3AAB0000129	LED	1	
R401	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1MN18B00048	CONNECTOR	1	
P2	K1MN07B00070	CONNECTOR	1	
P3	K1MN31B00015	CONNECTOR	1	
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
SW1	EVQPLPA08	SWITCH	1	
VR1	K9AA01500005	SWITCH	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP8020	CAM OP ANGLE	1	
	XQN16+B3FN	SCREW	2	
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	FOR VEP26257B
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 10UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

AG-DVC30E, AG-DVC32EN, AG-DVC33MC

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
■ E2	VEP03G60B	VTR C.B.A.	1	(RTL)
■ E3	VEP23598B	CAMERA C.B.A.	1	(RTL)
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
■ E6	VEP001G1A	SUB REC C.B.A.	1	(RTL)
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
C1001,02	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1004	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1005,06	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1007-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1011	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1012	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1021	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1022	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1041	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1042	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1051	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1052	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1053-55	F1G1H2210001	C.CAPACITOR CH 50V 220P	3	
C1057	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1058	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1061,62	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C1063,64	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071,72	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1102	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1103	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1106	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C1112	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1113	F1G1C333A004	C.CAPACITOR CH 16V 0.033U	1	
C1115	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1123	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1126	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1142	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1145	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1146	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1151	ECJ1ZB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1152	ECUX1E473KBV	C.CAPACITOR CH 25V 0.047U	1	
C1154	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1157	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1221-24	F1H1A105A028	C.CAPACITOR CH 10V 1U	4	
C1226,27	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1249	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1251,52	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	2	
C1253	F1H1E154A050	C.CAPACITOR CH 25V 0.15U	1	
C1271	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1273	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1322,23	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1328	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1341	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1342	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1343	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1344	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1503	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1603	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1604	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1605	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C1606	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1608	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1610	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1615	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1616	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1619	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1620	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1621	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1622	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1623	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1627,28	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C1635	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1636	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1901	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C1902	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C1911,12	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1925	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1927	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1929	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1931	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1003	NSD03A20	DIODE	1	
D1005	MA8130-M	DIODE	1	
D1011	B0JCMC000004	DIODE	1	
D1021	B0JCMC000004	DIODE	1	
D1041	B0JCMC000004	DIODE	1	
D1051	MA2YD1700L	DIODE	1	
D1052	MA2Z00100L	DIODE	1	
D1071	MA111	DIODE	1	
D1072	MA2Z00100L	DIODE	1	
D1101	MA8100-M	DIODE	1	
D1102	MA2S11100L	DIODE	1	
D1131	MA2S11100L	DIODE	1	
D1251	MAZ81800HL	DIODE	1	
D1252	MA2S11100L	DIODE	1	
D1528	MA2S11100L	DIODE	1	
D1602	B0JCMC000004	DIODE	1	
D1608	B0JCMC000004	DIODE	1	
D1610	MA2S11100L	DIODE	1	
D1681	B0ADDJ000011	DIODE	1	
D1682	MA2S11100L	DIODE	1	
D1683	MAZ80620HL	DIODE	1	
D1684	MA3S132E0L	DIODE	1	
D1685	B0BC4R200013	DIODE	1	
IC1001	C0DBAZZ00064	IC	1	
IC1321	C0CBCAC00061	IC	1	
IC1601	C0DBAZZ00064	IC	1	
IC1901	L2ES00000010	SENSOR UNIT	1	FOR VEP001G8A
IC1922	C0ABBA000077	IC	1	
IC1923	C0JBAS000063	IC	1	
⚠ IP1001	K5H3122A0022	FUSE	1	
⚠ IP1003	K5H8011A0004	FUSE	1	
L1001	G1C3R9MA0024	COIL 3.9UH	1	
L1005	J0JHC0000018	FILTER	1	
L1006	J0MAB0000060	FILTER	1	
L1011	G1C330MA0011	COIL 33UH	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1041	G1C330MA0011	COIL 33UH	1	
L1061	G1C330MA0085	COIL 33UH	1	
L1062	G1C181MA0024	COIL 180UH	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0072	COIL 4.7UH	2	
L1221	G1C4R7MA0072	COIL 4.7UH	1	
L1222	G1C4R7MA0073	COIL 4.7UH	1	
L1223,24	G1C4R7MA0076	COIL 4.7UH	2	
L1226,27	G1C4R7MA0073	COIL 4.7UH	2	
L1241	G1C4R7MA0072	COIL 4.7UH	1	
L1251-53	G1C100KA0055	COIL 10UH	3	
L1271,72	G1C100KA0055	COIL 10UH	2	
L1321,22	G1C4R7MA0076	COIL 4.7UH	2	
L1341,42	G1C4R7MA0073	COIL 4.7UH	2	
L1602	G1C331M00006	COIL 330UH	1	
L1604,05	G1C4R7MA0076	COIL 4.7UH	2	
L1609	A921CY-470M	FILTER	1	
L1610	J0JAC0000011	FILTER	1	
L1612	J0JAC0000011	FILTER	1	
L1901	G1C100K00019	COIL 10UH	1	
L1922,23	G1C100K00019	COIL 10UH	2	
P1001	K1KA03A00462	CONNECTOR (MALE)	1	
P1011	K1KA80A00037	CONNECTOR	1	
Q1003	B2ABGP000001	THYRISTOR	1	
Q1011	B1DHCC000035	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1021	B1DHCC000035	TRANSISTOR	1	
Q1022	B1DFCD000012	TRANSISTOR	1	
Q1041	B1DHCC000035	TRANSISTOR	1	
Q1042	B1DFCD000012	TRANSISTOR	1	
Q1051	B1DFCG000011	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1601,02	B1DHCC000035	TRANSISTOR	2	
Q1611	B1DHCC000035	TRANSISTOR	1	
Q1612	B1DFCD000012	TRANSISTOR	1	
QR1001	UNR9113J0L	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UNR911DJ0L	TRANSISTOR	1	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602,03	UN9213	TRANSISTOR-RESISTOR	2	
QR1681	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1005	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1017	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1047	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1052,53	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R1056,57	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	D0GD220JA003
R1058	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R1105	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1106	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1107	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1108,09	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	2	
R1111	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1115	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1117	ERJ2RKD680	M.RESISTOR CH 1/16W 68	1	
R1119	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1121	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1125	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1126	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1127	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1128,29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1141	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1145	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1146	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1147	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1148,49	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1151	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1152	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1153	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1154	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1157	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1158	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1159	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1241	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1251	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1503	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
⚠ R1524	K5H6312A0008	FUSE	1	
⚠ R1525	K5H1222A0008	FUSE	1	
⚠ R1526	K5H6312A0008	FUSE	1	
R1601	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R1602	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1603	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1605	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1607	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1608	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	1	
R1612	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1618	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1619	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1621	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
⚠ R1625	K5H1021A0004	IC	1	
R1627,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1630,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1634	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1635,36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1638	ERJ2RHD821	M.RESISTOR CH 1/16W 820	1	
R1639	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1640	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1641	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1681	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1682	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1901	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1912	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1925	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1926	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1928	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R1929	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1930	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
T1051	G5D1A0000033	TRANSFORMER	1	
		MISCELLANEOUS		
	VMP8005	POWER PCB HOLDER	1	
	VSC5590	POWER PCB SHIELD (L)	1	
	VSC5589	POWER PCB SHIELD (U)	1	
	XQN16+B3FN	SCREW	2	
	VMX3424	GYRO PCB SPACER	1	
■ E2	VEP03G60B	VTR C.B.A.	1	(RTL)
C600	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C605	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C606,07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C610	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C612	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	1	
C626	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C627	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C628	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C629	ECST0JY335Z	T.CAPACITOR CH6.3V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C633	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C666	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2002	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2003	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2004,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2007,08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2009,10	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2011	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2012	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2013-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2016	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2019	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2020,21	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2024	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2025	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C2028	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2041	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2047	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2053	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2054	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2055	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2063	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2072	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2201,02	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C2203	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2204	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C2205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2209	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C2212	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2213	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2216	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2217-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2221	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2222,23	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C2225	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2226	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2230	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2231	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C2232	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2243	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3004	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3005	F3G1A4760001	T.CAPACITOR CH 10V 47U	1	
C3006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3007	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3010-12	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3015	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3016	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3017	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3018	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3019	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3020,21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3024,25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3030	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3038	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3039	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3045	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3046,47	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3053	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3055	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3056	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3061	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102,03	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3104	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3112	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3114	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3116,17	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3118	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3123	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3124	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3125	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3127	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3130	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3131,32	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3134	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3135	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3136,37	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3201	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3202	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3203	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3204-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3210	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3212,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3221	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3229	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3252	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3253	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C3254	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3257	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3260	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3501-03	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3504,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3511	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3512,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C3516	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3520	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3521-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3556	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C3557	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C3563	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C3564	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3566	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3569	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3570	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4000,01	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4003,04	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C4005,06	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4007,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C4009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4010	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C4011,12	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C4013	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C4014	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C4015	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4017-20	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	4	
C4021,22	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4025,26	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4029,30	F3F1A226A008	T.CAPACITOR CH 10V 22U	2	
C5001	F3H1C4760008	T.CAPACITOR CH 16V 47U	1	
C5002,03	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	2	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C5021-24	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	4	
D1	B0JDAD000001	DIODE	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001	MA133	DIODE	1	
D2006	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA2S11100L	DIODE	1	
D2201	MA133	DIODE	1	
D3102,03	D4ED1220A006	VARISTOR	2	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLK000004	IC	1	
IC2005	C0ABAA000046	IC	1	
IC2007	C1ZBZ0002226	IC	1	
IC2008	C3EBGG000015	IC	1	
IC2011	C0CBAAA00016	IC	1	
IC2012	C0EBD0000171	IC	1	
IC2013	C0CBCAC00082	IC	1	
IC2014	C0CBABC00137	IC	1	
IC2201	C1AB00001752	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZJ000005	IC	1	
IC3005	C1BB00000820	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C0ZBZ0000830	IC	1	
IC3009	C0CBAAE00016	IC	1	
IC3201	C1AB00001695	IC	1	
IC3202	C1AB00001612	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	C0ABAA000046	IC	1	
IC3503	C1AB00000647	IC	1	
IC4000,01	TA75W01FU	IC	2	
IC4002	C0ZBZ0000043	IC	1	
IC4003,04	TA75S01F	IC	2	
IC4005	TC4W53FU	IC	1	
IC4008	TC4W53FU	IC	1	
IC5001	AN3732FJMEFV	IC	1	
L601	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2002	VLQ0807K220	COIL 22UH	1	G1C220K00016
L3006	G1C100MA0060	COIL 10UH	1	
L3009	G1C100KA0055	COIL 10UH	1	
L3011-14	G1C100KA0055	COIL 10UH	4	
L3015	G1C101KA0055	COIL 100UH	1	
L3017	G1C470MA0072	COIL 47UH	1	
L3018	G1C100K00019	COIL 10UH	1	
L3021-23	G1C100KA0055	COIL 10UH	3	
L3204	G1C101KA0055	COIL 100UH	1	
L3206	G1C100KA0055	COIL 10UH	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3501	G1C100KA0055	COIL 10UH	1	
L3505-09	G1C330K00017	COIL 33UH	5	
L4000	G1C100MA0060	COIL 10UH	1	
L5001	G1C101KA0055	COIL 100UH	1	
L5002,03	G1C100MA0060	COIL 10UH	2	
LB3001	J0JAC0000014	FILTER	1	
LB3003,04	J0JAC0000014	FILTER	2	
LB3006	J0JAC0000014	FILTER	1	
LB3201	J0JAC0000014	FILTER	1	
LB3203	J0JAC0000014	FILTER	1	
LB3205	J0JAC0000014	FILTER	1	
LB3502,03	J0JBC0000012	FILTER	2	
P2200	K1KBC0A00028	CONNECTOR (FEMALE)	1	
P2201	K1KB40A00131	CONNECTOR (FEMALE)	1	
P2210	K1MN08A00032	CONNECTOR	1	
P2211	K1MN08B00040	CONNECTOR	1	
P2212,13	K1MN18B00049	CONNECTOR	2	
P2214	K1MN10B00062	CONNECTOR	1	
P2215	VJS3826C030	CONNECTOR (FEMALE)	1	
P2216	VJS3791D024	CONNECTOR (FEMALE)	1	K1MN24B00012
P2217	K1MN33B00023	CONNECTOR	1	
P2219	K1KB60A00122	CONNECTOR (FEMALE)	1	
P2220	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2221	K1KA02B00053	CONNECTOR (MALE)	1	
P2222	K1KA08A00267	CONNECTOR (MALE)	1	
P2224	K1KB30B00014	CONNECTOR (FEMALE)	1	
Q601	B1ADGD000005	TRANSISTOR	1	
Q602	B1ADBE000001	TRANSISTOR	1	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2001	2SB0970X0L	TRANSISTOR	1	
Q2002	2SA202100L	TRANSISTOR	1	
Q2003	2SD182000L	TRANSISTOR	1	
Q2004	B1CHHD000003	TRANSISTOR	1	
Q2007	B1ACGD000006	TRANSISTOR	1	
Q3101-03	B1ABBE000002	TRANSISTOR	3	
Q3501	B1ACGD000006	TRANSISTOR	1	
Q3503	XP0460100L	TRANSISTOR	1	
Q3504	2SB1218AHL	TRANSISTOR	1	
Q3505	B1ABBE000002	TRANSISTOR	1	
Q3506	XP0460100L	TRANSISTOR	1	
Q4000,01	2SD1819A-R	TRANSISTOR	2	
Q4002	2SD1824	TRANSISTOR	1	
Q4003,04	XP0121300L	TRANSISTOR	2	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR321F00L	TRANSISTOR	1	
QR2003	UNR321F00L	TRANSISTOR	1	
QR2006,07	XP0411500L	TRANSISTOR	2	
QR2012	XP0431N00L	TRANSISTOR	1	
QR3104	UNR221300L	TRANSISTOR	1	
QR3502	B1GBBEKK0001	TRANSISTOR	1	
R601	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R602	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R604	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R632	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R636	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R648-50	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R651	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R657	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R658	ERJ2RMJ331	M.RESISTOR CH 1/16W 330	1	
R2001,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2006	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2008	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2009	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2011	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2012	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2013	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2014	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2016,17	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2019	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2022-24	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2026	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2027	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2029	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2030	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2031	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2032	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2037	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2039	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2040	ERJ8GEYG680	M.RESISTOR CH 1/8W 68	1	
R2041	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2045	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2047,48	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2054	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2055	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2057	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2060	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2061	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2065	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R2066	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2067	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2068	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R2069	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2074	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2078	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2080	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R2083	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2089	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2095	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2096	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2099,00	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2101	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2104	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2114,15	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2128	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2129	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2130	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2131	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136,37	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2140	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2141	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2143	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2144	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R2146	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2151	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2153	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2155	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2161	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2163	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2199	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2201	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2202	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R2204	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2205,06	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2207	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2210	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2211	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2212	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2213	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2214	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2218	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2219	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2220	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2222	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2226	ERJ8GEYJR68	M.RESISTOR CH 1/8W 0.68	1	
R2227	EXB24V102J	COMBI.R-R 1K	1	
R2647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2649-51	EXB24V473J	COMBI.R-R 47K	3	
R2653,54	EXB24V473J	COMBI.R-R 47K	2	
R2655-61	EXB24V102J	COMBI.R-R 1K	7	
R2662	EXB24V473J	COMBI.R-R 47K	1	
R2663-66	EXB24V102J	COMBI.R-R 1K	4	
R2667	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2669	EXB24V473J	COMBI.R-R 47K	1	
R2671,72	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3003,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3010,11	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-25	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R3026	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3101	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2RMJ473	M.RESISTOR CH 1/16W 47K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3135	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3139	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3140,41	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3156,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3158,59	EXB24V473J	COMBI.R-R 47K	2	
R3170	EXB24V102J	COMBI.R-R 1K	1	
R3171	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3176	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3179,80	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3181,82	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3201	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R3202	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3203	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3204	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3205	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3206	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3207	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3208,09	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3210	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
R3211,12	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3234	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3260	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3514	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3516	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3549	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3550	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3553	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3554	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3570	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4000-03	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	4	
R4004,05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4006-09	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R4010,11	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4012,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4014,15	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	2	
R4016,17	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	2	
R4018-21	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4022,23	ERJ3RBD623	M.RESISTOR CH 1/16W 62K	2	
R4024,25	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4032	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4033	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4034,35	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4036	EXB24V473J	COMBI.R-R 47K	1	
R4037	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4038,39	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4042,43	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	2	
R4044,45	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R4046-49	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4050,51	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4052	EXB24V473J	COMBI.R-R 47K	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5013,14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6901,02	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R9007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9010,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R9014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9023	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9029	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R9031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TP9001	EYF6CU	TEST POINT	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
X2003	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	EYF6CU	TEST POINT	2	
■ E3	VEP23598B	CAMERA C.B.A.	1	(RTL)
C100	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102-07	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C112-14	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	3	
C115-17	ECST1EY155	T.CAPACITOR CH 25V 1.5U	3	
C121-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C127	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C128	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C129,30	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132,33	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C134	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C135	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C136-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C139-44	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C145-50	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C152-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C155-57	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C727,28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C737	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C738	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C747	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C750	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757-59	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C763	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C785	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C786-88	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C789	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C798	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C807	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C900	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C901	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C902	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C903	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C927	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C928	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C929	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C930	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C932	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C933	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C934	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C935	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C936	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C937	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C938	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C940	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C941	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1002,03	F3F1A226A001	T.CAPACITOR CH 10V 22U	2	
C1004	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1010-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1017	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1018-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1027,28	ECST1EX475	T.CAPACITOR CH 25V 4.7U	2	
C1029	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1030-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C1035	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1036-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1039	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1043	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1045	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1046	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1048	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1049	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1051,52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1053	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1054	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1055	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C1056-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1062,63	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C1064,65	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	2	
C1067	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1069,70	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1079	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1084	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1085	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1086-88	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1089	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1090-92	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1093	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1094	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1601	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1602	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1603	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1604	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1605	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1606	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1651	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1652	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1653	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1655	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1656	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1657	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1660,61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C2001	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2003,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2007	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2008-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2011,12	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	2	
C2013	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3000	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3001	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3004-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3007	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C3008	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3020	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3021	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C3022	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3023	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3024	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3025	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3026	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C3030	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3031	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3032	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3034	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4112	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4124	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1001	MA3S132A0L	DIODE	1	
D1601	MA3S132E0L	DIODE	1	
D3000	B0JCDD000002	DIODE	1	
IC1	C0CBABC00094	IC	1	
IC2	NJM431U	IC	1	C0DBEZC00003
IC104-06	C1AB00001677	IC	3	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC710	C0GBG0000028	IC	1	
IC711	C0CBADC00034	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	
IC719	C0CBADC00034	IC	1	
IC927	C0ABCA000053	IC	1	
IC928	C0ABAA000043	IC	1	
IC929	C0CBADC00034	IC	1	
IC1000	C1ZBZ0002385	PLD	1	
IC1001	C0JBAB000004	IC	1	
IC1002	C0JBAF000162	IC	1	
IC1003	C0JBAB000003	IC	1	
IC1004-06	TC7SH32FU	IC	3	
IC1007	C0JBAE000140	IC	1	
IC1008	C0JBAA000102	IC	1	
IC1010	TC7SH04FU	IC	1	
IC1011	C0JBAA000102	IC	1	
IC1013	C0JBAD000071	IC	1	
IC1014	TC7SH32FU	IC	1	
IC1015,16	C0JBAB000543	IC	2	
IC1022,23	UPD16510GR	IC	2	
IC1024	C0JBAA000182	IC	1	
IC1025	C0JBAE000140	IC	1	
IC2000	MN7GD02B5DB	IC	1	
IC2002	TC7W74FU	IC	1	
IC2003	C0JBAF000162	IC	1	
IC3000	TC7SH04FU	IC	1	
IC3001	C0FBAF000029	IC	1	
IC3002,03	TC7SH14FU	IC	2	
IC3005	C0JBAA000102	IC	1	
IC3006	C3EBHC000015	IC	1	
IC3500	MN103S33NSA	IC	1	
IC4105	C0ABAA000046	IC	1	
L100-02	VLQ0807K100	COIL 10UH	3	G1C100K00024
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703	VLQ0807K100	COIL 10UH	1	G1C100K00024
L708,09	VLQ0807K100	COIL 10UH	2	G1C100K00024
L900	VLQ0807K100	COIL 10UH	1	G1C100K00024
L927	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1000,01	G1C100K00025	COIL 10UH	2	
L1002	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1003	G1C100KA0004	COIL 10UH	1	
L1006	VLQ0807K100	COIL 10UH	1	G1C100K00024
L2000	VLQ0807K100	COIL 10UH	1	G1C100K00024

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L2001	G1C4R7MA0031	COIL 4.7UH	1	
L2003	G1C100K00019	COIL 10UH	1	
L3001	VLQ0807K100	COIL 10UH	1	G1C100K00024
L4104	G1C100K00019	COIL 10UH	1	
P1	K1KA40A00217	CONNECTOR (MALE)	1	
P2	K1KAC0A00023	CONNECTOR (MALE)	1	
P3	K1MN20B00028	CONNECTOR	1	
P4	K1MN10A00045	CONNECTOR	1	
P5	VJP3949A080H	CONNECTOR (MALE)	1	
P6	K1KA40A00216	CONNECTOR (MALE)	1	
P7	VJS3791D016	CONNECTOR (FEMALE)	1	
P8	VJS3826C050	CONNECTOR (FEMALE)	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q702	B1ADGD000005	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q927	2SD2216J0L	TRANSISTOR	1	
Q928	2SD0601A0L	TRANSISTOR	1	
Q1601	2SB1462J0L	TRANSISTOR	1	
Q1602	XP1501	TRANSISTOR-RESISTOR	1	
Q1603	2SD1819A-R	TRANSISTOR	1	
Q1604	2SB1462J0L	TRANSISTOR	1	
Q1605	2SD2216J0L	TRANSISTOR	1	
Q1606	2SB1462J0L	TRANSISTOR	1	
Q1651	2SD2216J0L	TRANSISTOR	1	
Q1652	XP1401	TRANSISTOR-RESISTOR	1	
Q1653	2SB1218A-R	TRANSISTOR	1	
Q1654	2SD2216J0L	TRANSISTOR	1	
Q3000	XN0460100L	TRANSISTOR-RESISTOR	1	
Q3001	2SD1979	TRANSISTOR	1	
QR701	UN9211	TRANSISTOR-RESISTOR	1	
QR705	UN9211	TRANSISTOR-RESISTOR	1	
QR708,09	UN9213	TRANSISTOR-RESISTOR	2	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602	UNR9111J0L	TRANSISTOR	1	
QR1651	UN9213	TRANSISTOR-RESISTOR	1	
QR3000,01	UNR9215J0L	TRANSISTOR	2	
QR3002	B1GDBEJG0002	TRANSISTOR	1	
R1,R2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R100-02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R110-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R709	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R719	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R728	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R737	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R738	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R746	ERJ2GEJ155	M.RESISTOR CH 1/16W 1.5M	1	
R747	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R748	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R749	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R754	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R755	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R760	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R765	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R779	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R780	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R781	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R793	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R794	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R798	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R803,04	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R805	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R807	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R809	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R810	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R823	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R825	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R901	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R903	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R904-06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R909	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R911	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R927	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R928	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R929	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R930	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R931,32	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R933	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R934	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R935	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R936	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R937	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R938	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R939,40	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R941	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R942	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R943	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R944	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R945	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R946	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R947	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R948	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R949	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R954	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R979	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R980	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R990	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R992	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1020	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1056	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1167	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1175	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1178,79	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R1182	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1183	ERJ2RMJ391	M.RESISTOR CH 1/16W 390	1	
R1185	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1191	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1194	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1195,96	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1198,99	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1200	ERJ2GEJ270	M.RESISTOR CH 1/16W 27	1	
R1201-07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R1601	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1602	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1603	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1604	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1607	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1608	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1609	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1610	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1612	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
R1613	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1614	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R1615	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1616	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1617	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1618	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1620	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1651	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1652	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1653	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1654	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1655	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1657	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1658	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1659	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1660	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1662	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1663	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
R1664	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R1666	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1667	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1669,70	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1673	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R2006,07	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2009	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2010,11	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2014	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2022	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2029,30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2096	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3012,13	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3014-16	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3017	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3019	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3020-22	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R3023	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3024	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3026	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3031	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3032	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R3033	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3034,35	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3036,37	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	2	
R3038	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3039	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3040	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3041-44	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R3046	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3049	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3051	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3055	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3057	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3059	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3060	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3061	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3062	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3063,64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3078	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3083,84	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3089	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3091	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3095	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3109,10	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3116	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3118	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3154	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3156	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3157	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3158	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3163	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3164	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3165	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3166,67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3168,69	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3170-73	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R3175	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3178	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3179	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3181	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3183	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3184	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R3185	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R3186	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3187	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3188	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3190	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3191,92	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3195	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3198,99	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3207	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3210	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3211	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4115-18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4119,20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4156	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4157	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4166-71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R4173	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X1000	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X3000	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5623	CAMERA PCB HEAT SINK (L)	1	
	VSC5624	CAMERA PCB HEAT SINK (U)	1	
	VGQ8094	COOLING SHEET CR	1	
	VGQ8096	COOLING SHEET_C2	1	
	VGQ8097	COOLING SHEET_C3	5	
	XQN16+B3FN	SCREW	2	
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
C6301	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6302	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C6303	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C6304	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C6306,07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	
C6308	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6310	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6312	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6313	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6314	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D6301,02	B3EA00000029	LED	2	
IC6301	B3MAZ0000028	PHOTO DETECTOR	1	
IC6302	L2ES00000011	SENSOR UNIT	1	
IC6303	C0ABBA000077	IC	1	
IC6304	C0JBAS000063	IC	1	
L6301-03	G1C100K00019	COIL 10UH	3	
P6301	VJS3791D016	CONNECTOR (FEMALE)	1	
P6302	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R6301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6306,07	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R6308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6310	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8013	FRONT PCB BASE	1	
	VJF1495	LED HOLDER	1	
	XQN16+B3FN	SCREW	3	
	XQN16+B4FN	SCREW	1	
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
C4101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4102,03	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C4104	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4105-08	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	4	
C4109,10	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C4111,12	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4113	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4115	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
D4101	MA132WA	DIODE	1	
D4102	MA2SD2400L	DIODE	1	
D4103	B3GA00000041	DIODE	1	
J4101	K2HZ104A0002	S TERMINAL JACK	1	
J4102	K2HC106B0010	AC POWER PLUG	1	
J4103	K2HC107B0003	AC POWER PLUG	1	
L4101	J0JBC0000054	FILTER	1	
L4102-04	J0JAC0000014	FILTER	3	
L4105,06	J0JBC0000054	FILTER	2	
L4107	J0JAC0000014	FILTER	1	
L4108-12	J0JAC0000015	FILTER	5	
L4113	J0JCC0000119	FILTER	1	
L4114	J0JAC0000015	FILTER	1	
P4101	K1MN33B00023	CONNECTOR	1	
Q4101	2SD103000L	TRANSISTOR	1	
Q4102	B1ABBE000002	TRANSISTOR	1	
Q4103	2SD2216J0L	TRANSISTOR	1	
Q4104	2SB1462J0L	TRANSISTOR	1	
Q4105	2SD2216J0L	TRANSISTOR	1	
Q4106	2SB1462J0L	TRANSISTOR	1	
Q4107	2SD1819A-R	TRANSISTOR	1	
QR4101	B1GDBEHH0001	TRANSISTOR	1	
R4101	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4102	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4104	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4105	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R4106	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4109	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4111	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4113	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4114	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4116	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4117	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4118	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4119	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4120	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4121	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4123	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4124	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4131-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
TH4101	D4CC11030012	THERMISTOR	1	
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
		MISCELLANEOUS		
	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA03B00102	CONNECTOR (MALE)	1	
R1	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
SW201	EVQQW101M	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
D1	MA142K	DIODE	1	
P1	K1MN06B00077	CONNECTOR	1	
P2	K1MN10B00052	CONNECTOR	1	
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
SW501	K0L1BB000022	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z34	CAS OPEN HARNESS	1	
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
J4301	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
J4302	K2YZ04000016	PLUG AND JACK	1	
J4303	K2HC106B0010	AC POWER PLUG	1	
L4301,02	VLF1315A102	FILTER	2	J0JHC0000015
L4304,05	J0MAB0000110	FILTER	2	
L4306	VLF1394	FILTER	1	J0MAB0000077
P4301	K1MN10B00052	CONNECTOR	1	
P4302	VJS3801D024	CONNECTOR (FEMALE)	1	
R4301,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4304,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8003	REAR P.C.B.FIX ANGLE	1	
	XQN16+B4FN	SCREW	2	
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA60A00148	CONNECTOR (MALE)	1	
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
B6401	VSB0407	BATTERY	1	
C6402-06	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
D6401	B0JDAD000001	DIODE	1	
D6402	MA3S781D0L	DIODE	1	
D6403,04	B0JDAD000001	DIODE	2	
D6405,06	MA3S781D0L	DIODE	2	
D6407	B0JDAD000001	DIODE	1	
P6401	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P6402	VJS3791D016	CONNECTOR (FEMALE)	1	
P6403	K1MN61B00001	CONNECTOR	1	
P6404	K1MN27B00053	CONNECTOR	1	
P6405	K1KA02B00053	CONNECTOR (MALE)	1	
R6401	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
SW6401-05	EVQPLPA08	SWITCH	5	
SW6406-13	K0H1BA000442	SWITCH	8	
SW6414	K0D112B00055	SWITCH	1	
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
P6001	VJS3791D016	CONNECTOR (FEMALE)	1	
P6002	K1MN06B00013	CONNECTOR	1	
SW6001-05	EVQPLPA08	SWITCH	5	
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
SW101	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z35	LCD OPEN HARNESS	1	
	VMP8017	LCD SW ANGLE	1	
	XQN16+B3FN	SCREW	1	
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
D401	B3AAB0000129	LED	1	
R401	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1MN18B00048	CONNECTOR	1	
P2	K1MN07B00070	CONNECTOR	1	
P3	K1MN31B00015	CONNECTOR	1	
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
SW1	EVQPLPA08	SWITCH	1	
VR1	K9AA01500005	SWITCH	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP8020	CAM OP ANGLE	1	
	XQN16+B3FN	SCREW	2	
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	FOR VEP26257B
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 10UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

AG-MYA30G

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP04875A	MAIN C.B.A.	1	(RTL)
■ E2	VEP01956A	POWER C.B.A.	1	(RTL)
■ E3	VEP04869A	XLR C.B.A.	1	(RTL)
■ E4	VEP04870A	SW C.B.A.	1	(RTL)
■ E5	VEP04871A	VR C.B.A.	1	(RTL)
■ E1	VEP04875A	MAIN C.B.A.	1	(RTL)
C401,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C403-06	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	4	
C407,08	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
C409,10	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C411-13	F3H1D2260003	T.CAPACITOR CH 20V 22U	3	
C414-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C451	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C452-54	F3H1D2260003	T.CAPACITOR CH 20V 22U	3	
C455	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C456,57	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
C458	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C459,60	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C461	F3H1D2260003	T.CAPACITOR CH 20V 22U	1	
D401-04	MA3J14300L	DIODE	4	
D451	MA142K	DIODE	1	
IC401,02	NJM2122M	IC	2	
IC403,04	TA75W558FU	IC	2	C0ABBA000042
IC405,06	TC7W53FU	IC	2	
IC451	TC7W53FU	IC	1	
IC452	TA75W558FU	IC	1	C0ABBA000042
IC453	AN77L09M	IC	1	
P451	K1ZZ00001280	CONNECTOR	1	
P452	VJS3846A030	CONNECTOR (FEMALE)	1	
P453	K1KA08A00434	CONNECTOR (MALE)	1	
P454	K1ZZ00001280	CONNECTOR	1	
Q401	2SD1819A-R	TRANSISTOR	1	
Q451	2SD1819A-R	TRANSISTOR	1	
QR401,02	UNR521300L	TRANSISTOR	2	
QR403,04	UNR511300L	TRANSISTOR	2	
QR405,06	UNR521300L	TRANSISTOR	2	
R401,02	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	2	
R403	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R405	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R407-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	12	
R419	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R420	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R421	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R422,23	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	2	
R424,25	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R426,27	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R451-53	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	3	
R454	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R455	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R456	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R457,58	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R459,60	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R463-65	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
■ E2	VEP01956A	POWER C.B.A.	1	(RTL)
C1801	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1802	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1803,04	VCK0303K225	C.CAPACITOR 2.2U	2	
C1806	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1809	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1811	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C1812	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C1813	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1815	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C1816	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C1818	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C1819-24	VCK0303K225	C.CAPACITOR 2.2U	6	
C1825	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1826	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C1827	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C1828	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1829	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1830	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1831	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1832	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1833	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
D1803	MA111	DIODE	1	
D1805	MA2S11100L	DIODE	1	
D1807	MA2S11100L	DIODE	1	
D1808	U1GU44	DIODE	1	
D1809	MA3J70000L	DIODE	1	
D1811	MA3S132E0L	DIODE	1	
D1812	MA8120-M	DIODE	1	
D1813,14	MAZ82700ML	DIODE	2	
IC1802	BA9743AFV	IC	1	C0DBAZC00010
L1801,02	J0JBC0000019	FILTER	2	
L1803	G1C100K00016	COIL 10UH	1	
L1804	VLQ0319K100	COIL 10UH	1	G1C100K00023
L1805	G1C331M00006	COIL 330UH	1	
L1806,07	G1C100K00019	COIL 10UH	2	
P1801	K1ZZ00001279	CONNECTOR	1	
P1802	K1KA02A00079	CONNECTOR (MALE)	1	
Q1801	B1ADCF000059	TRANSISTOR	1	
Q1803	B1DHCC000029	TRANSISTOR	1	
Q1805	XP0460100L	TRANSISTOR	1	
Q1806	2SJ278	TRANSISTOR	1	
Q1807	XP0460100L	TRANSISTOR	1	
Q1808	2SD1328-R	TRANSISTOR	1	
QR1801	UNR9214J0L	TRANSISTOR	1	
QR1802	UNR9113J0L	TRANSISTOR	1	
QR1803	UN9112J	TRANSISTOR	1	
QR1804,05	UN9213	TRANSISTOR-RESISTOR	2	
QR1806,07	UNR9113J0L	TRANSISTOR	2	
R1801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1802	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1803	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1804	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1806	ERJ3RHD243	M.RESISTOR CH 1/16W 24K	1	
R1807	ERJ3RHD393	M.RESISTOR CH 1/16W 39K	1	
R1808,09	ERJ3RHD333	M.RESISTOR CH 1/16W 33K	2	
R1810	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1812	ERJ3RHD683	M.RESISTOR CH 1/16W 68K	1	
R1813	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R1816,17	ERJ3RHD333	M.RESISTOR CH 1/16W 33K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1818	ERJ3RHD223	M.RESISTOR CH 1/16W 22K	1	
R1819	ERJ3RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1820	ERJ3RHD271	M.RESISTOR CH 1/16W 270	1	
R1826	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1827	ERJ3RHD104	M.RESISTOR CH 1/16W 100K	1	
R1828	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1829	ERJ3RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1830	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R1831	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1832	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1833	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1837	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1838	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1841	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1842	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1843	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1844	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1845	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R1846	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1847	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1849,50	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R1851,52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1854	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1856	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
T1801	G5DYA0000051	TRANSFORMER	1	
■ E3	VEP04869A	XLR C.B.A.	1	(RTL)
C301,02	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C303	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C304,05	EEVHP1H4R7	E.CAPACITOR 50V 4.7U	2	
C306	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C310	EEVHB1H3R3	E.CAPACITOR 50V 3.3U	1	
C351,52	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C353	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C354,55	EEVHP1H4R7	E.CAPACITOR 50V 4.7U	2	
C356	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
J301	K1AB103A0007	CONNECTOR (MALE)	1	
J351	K1AB103A0007	CONNECTOR (MALE)	1	
L301,02	VLQ0163J100	COIL 10UH	2	G1C100J00001
L303	VLF1315A102	FILTER	1	J0JHC0000015
L305	VLF1315A102	FILTER	1	J0JHC0000015
L307	VLF1315A102	FILTER	1	J0JHC0000015
L351,52	VLQ0163J100	COIL 10UH	2	G1C100J00001
L353	VLF1315A102	FILTER	1	J0JHC0000015
L355	VLF1315A102	FILTER	1	J0JHC0000015
L357	VLF1315A102	FILTER	1	J0JHC0000015
P301	VJS3826A013	CONNECTOR (FEMALE)	1	
P302	K1KA02A00079	CONNECTOR (MALE)	1	
P351	VJS3826A013	CONNECTOR (FEMALE)	1	
Q301	2SB1220-R	TRANSISTOR	1	
Q302	2SD1824	TRANSISTOR	1	
Q351	2SB1220-R	TRANSISTOR	1	
QR301	UNR521300L	TRANSISTOR	1	
QR351	UNR521300L	TRANSISTOR	1	
R303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R304	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R305,06	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R307	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R308	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R309,10	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R311,12	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R313,14	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R353	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R354	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R355,56	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R357	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R358	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R359,60	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R361,62	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R363,64	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	
■ E4	VEP04870A	SW C.B.A.	1	(RTL)
D201	MA142WK	DIODE	1	
P251	K1KA30B00055	CONNECTOR (MALE)	1	
P252,53	VJS3826A013	CONNECTOR (FEMALE)	2	
QR251,52	UNR521300L	TRANSISTOR	2	
R201,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R206	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R208,09	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R212	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R251,52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
SW201	K0D142A00034	SWITCH	1	
SW202-04	K0D122A00126	SWITCH	3	
SW205	K0D142A00034	SWITCH	1	
SW206,07	K0D122A00126	SWITCH	2	
■ E5	VEP04871A	VR C.B.A.	1	(RTL)
C101,02	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
P101	K1ZZ00001279	CONNECTOR	1	
R101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R103	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R105-10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R113	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
VR101,02	D2BBA14A0002	V.RESISTOR 10K	2	

ELECTRICAL ADJUSTMENT PROCEDURE

1. ADJUSTMENT SYSTEM

When performing the electrical adjustment, the following tools are required.

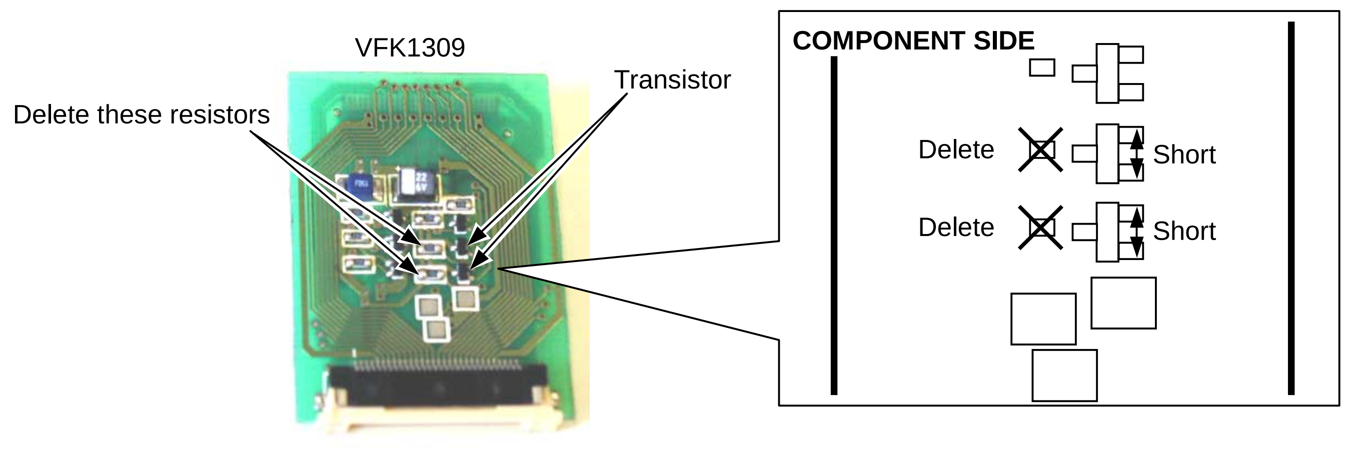
NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	NOTE
Connector Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	
DC Cable	VJA0941	1	
DC Cable	VJA1128 or LSJ0310	1	
9pin RS232C cross cable	---	1	
AC Adapter	---	1	
Personal Computer	---	1	

NOTE:

1. VFK1309 can be used for this adjustment system except LCD adjustment.
2. If you have VFK1309, it can be modified to VFK1309A as following specification.

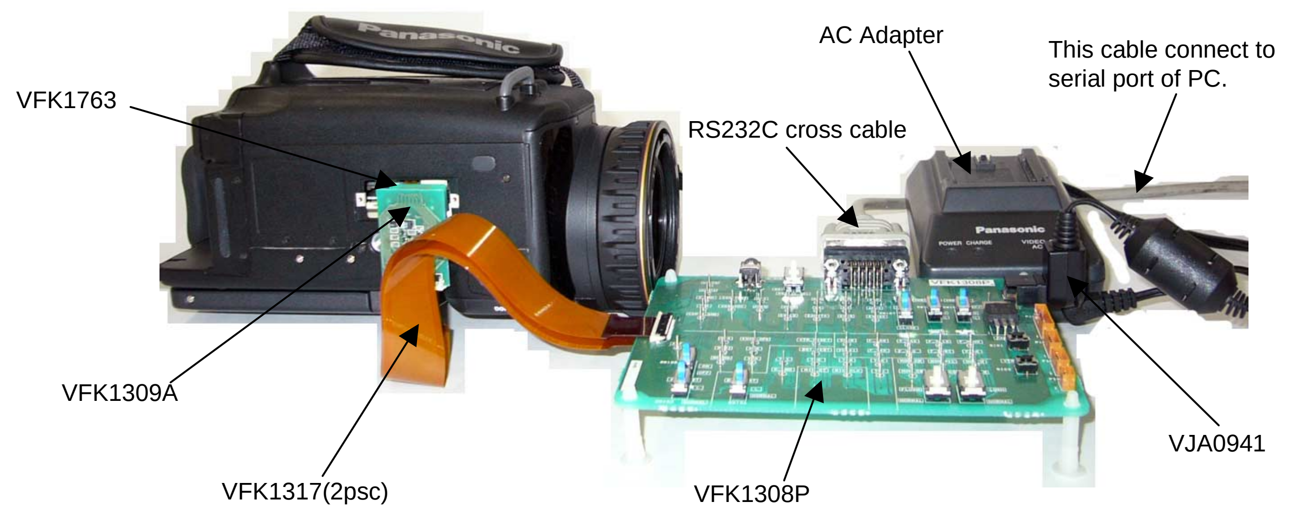
1-1. Modification procedure of VFK1309

1. Delete 2 pieces of resistor as shown in figure.
2. Short between emitter and base of 2 pieces of transistor as shown in figure.


VFK1309
Transistor
Delete these resistors
COMPONENT SIDE
Delete
Short
Delete
Short

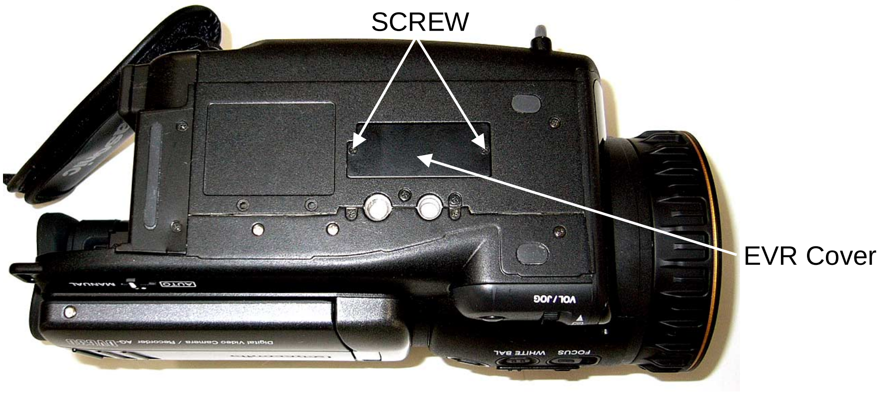
1-2. Connection

Please refer to next item 1-3 as detail explanation.


AC Adapter
This cable connect to serial port of PC.
VFK1763
RS232C cross cable
VFK1309A
VJA0941
VFK1317(2psc)
VFK1308P

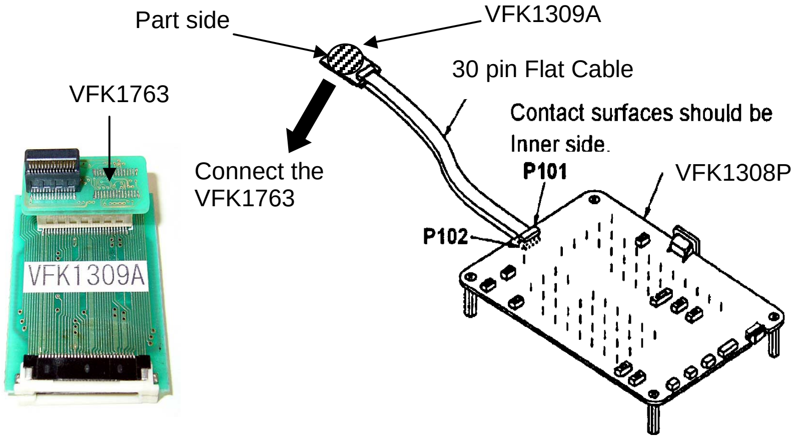
1-3. System Hook up Procedures

1. Unscrew the 2 screws and remove the EVR cover.


SCREW
EVR Cover

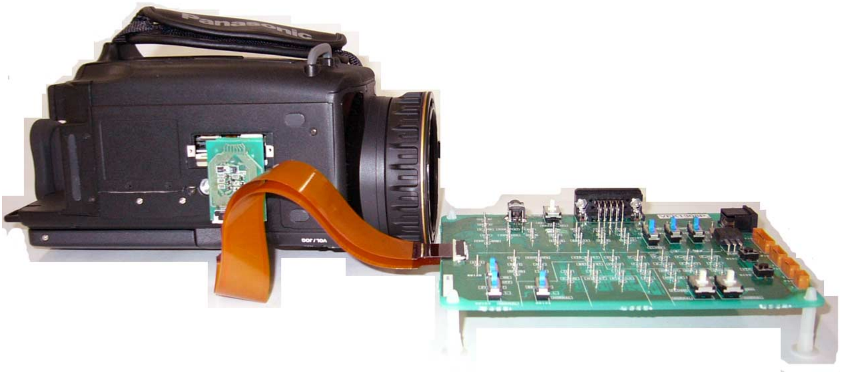
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figures. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
If the connector is installed backwards, it will not work.


Part side
VFK1309A
30 pin Flat Cable
VFK1763
Contact surfaces should be
Inner side.
Connect the
VFK1763
P101
VFK1308P
P102
VFK1309A

3. Connect the Connection Adapter (VFK1763) to EVR connector in camera recorder. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

When connecting VFK1763 to the EVR connector, be careful that it is installed in the correct direction. Please follow as shown in the figure.



4. Supply DC6V-9V to the Measuring Board (VFK1308P). Please use the DC cable (VJA0941) and AC Adapter to supply DC voltage to Measuring Board.
5. Connect a 9 pin RS-232C cross cable between the Measuring Board and RS-232C connector on Personal Computer as shown in Figure.
6. Unless otherwise specified on the message of the EVR software or this adjustment procedure, set the switches on the Measuring Board as shown in the table below.

NAME	SETTING POSITION
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	NORMAL
BST TEST (SW104)	NORMAL
SW107	CENTER position
SW108	H
SW105	H
SW106	OFF
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

2. REQUIRED TOOL & EQUIPMENT FOR ELECTRICAL ADJUSTMENT

Below indicated tools are required to perform each adjustment in addition to tools in introduced in item1.

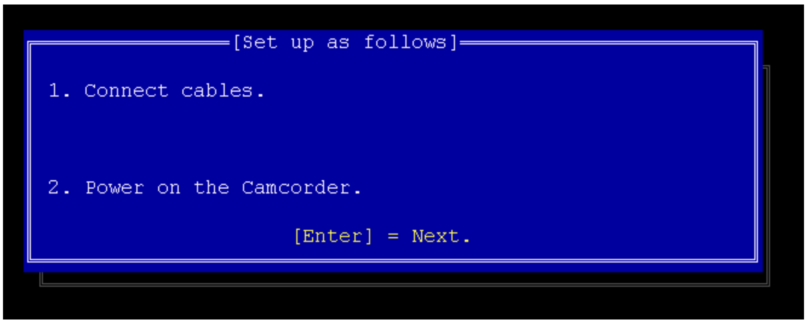
Adjustment	Item	Required Tool	Remark
Camera	Zoom SW center value adjustment	Unnecessary	**NOTE**
	Iris Hall Amp (Auto)	Unnecessary	
	Iris PWM Bias (Auto)	Unnecessary	
	ND Hall Amp (Auto)	Unnecessary	
	ND PWM Bias (Auto)	Unnecessary	
	OIS (Auto)	Unnecessary	
	Zoom Tracking (Auto)	43mm Attachment Ring (VFK1164TAR43)	
		Collimator Set (VFK1164TCM01)	
	CCD White scratch damage revision (Auto)	Unnecessary	
	White Balance (3100K)	Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (5100K)	CC filter (LB120) (VFK1347)	
		CC filter (LBA2) (VFK1884)	
		CC filter (LBB6) (VFK1888)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (4500K)	CC filter (LB120) (VFK1347)	NTSC model only
		CC filter (LB80) (VFK1342)	PAL model only
		CC filter (CC C20) (VFK1887)	PAL model only
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (3600K)	CC filter (LB40) (VFK1341)	NTSC model only
		CC filter (LBB2) (VFK1885)	NTSC model only
		CC filter (CC C10) (VFK1886)	PAL model only
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Shading	Halogen lamp	
VTR	Sensitivity adj of Tape sensor (Auto)	Tape End/Beg. Detect Cassette (VFK1217)	
	PG Shifter (Auto)	Oscilloscope	
		DV Color bar Alignment Tape (VFM3010EDS)	NTSC model only
		DV Color bar Alignment Tape (VFM3110EDS)	PAL model only
	Luminance Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
	Chroma Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
LCD	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	
EVF	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	

NOTE: The Zoom SW center value adjustment is contained in Camera adjustment menu but it is not on adjustment of the camera system.

3. PC EVR (ADJUSTMENT) SOFTWARE

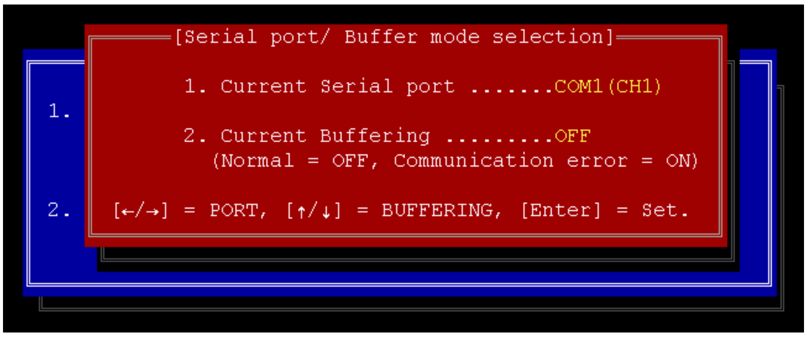
3-1. BOOT UP THE ADJUSTMENT SOFTWARE

1. Copy all files of EVR software (VFK1908:NTSC / VFK1909:PAL) to created directly on PC.
2. Restart the PC in DOS mode.
3. In case NTSC software, type **“dvc30p”** and press ENTER key, then EVR software boot up.
   In case PAL software, type **“dvc30e”** and press ENTER key, then EVR software boot up.
4. Wait for a few seconds so that the EVR adjustment program is started.



```
[Set up as follows]

1. Connect cables.


2. Power on the Camcorder.

                  [Enter] = Next.
```

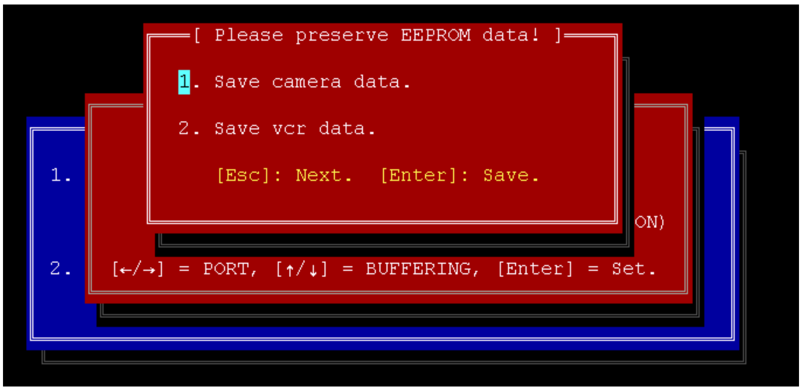
PRESS ENTER KEY



```
       [Serial port/ Buffer mode selection]

 1.        1. Current Serial port .......COM1(CH1)

           2. Current Buffering .........OFF
             (Normal = OFF, Communication error = ON)

 2.   [←/→] = PORT, [↑/↓] = BUFFERING, [Enter] = Set.
```

PRESS ENTER KEY

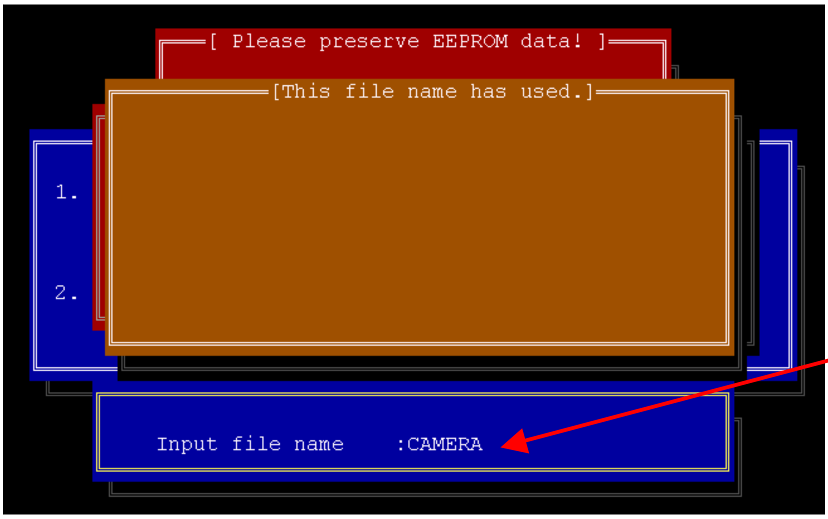
NOTE:
In case of communication error occurred in DOS mode, please try to boot an EVR software in MS-DOS WINDOWS screen.



```
            [ Please preserve EEPROM data! ]

             1. Save camera data.

             2. Save vcr data.

                [Esc]: Next.  [Enter]: Save.
 1.
                                               ON)

 2.   [←/→] = PORT, [↑/↓] = BUFFERING, [Enter] = Set.
```

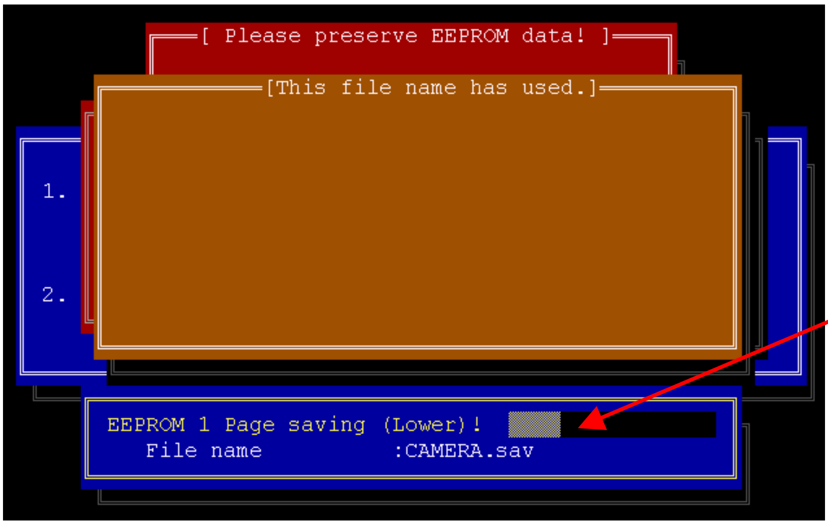
Normally this screen is appears. We recommended storing the EEPROM data before starting adjustment. If you want to skip storing the data, PRESS ESC KEY, then go storing to Main menu.
NOTE: It is only adjustment data that is actually saved.

In case of select No.1


[Please preserve EEPROM data!]
[This file name has used.]
1.
2.

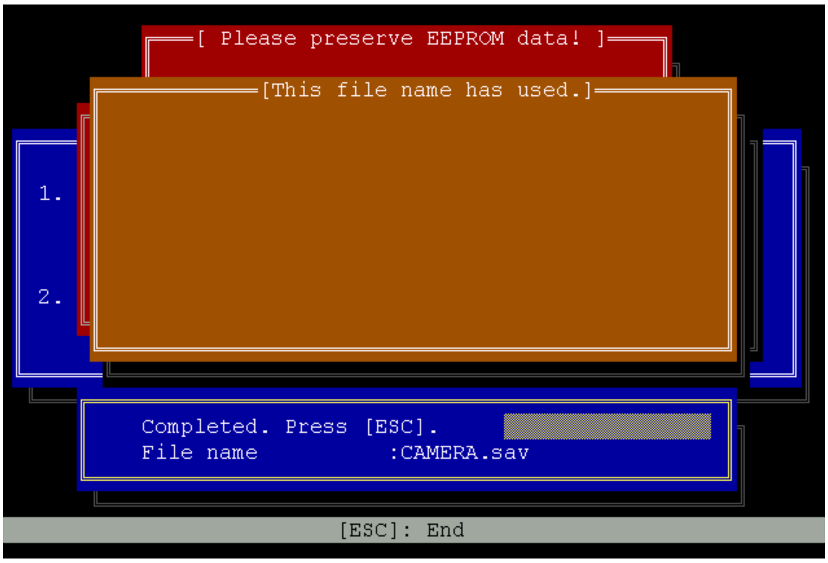
Input file name :CAMERA

Input file name and PRESS ENTER KEY.


[Please preserve EEPROM data!]
[This file name has used.]
1.
2.

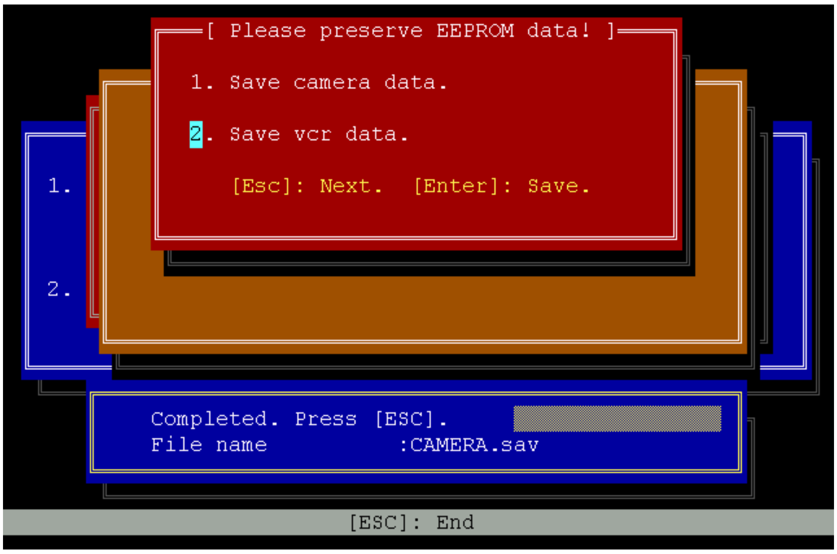
EEPROM 1 Page saving (Lower)!
File name :CAMERA.sav

Saving the data is started.


[Please preserve EEPROM data!]
[This file name has used.]
1.
2.
[ESC]: End

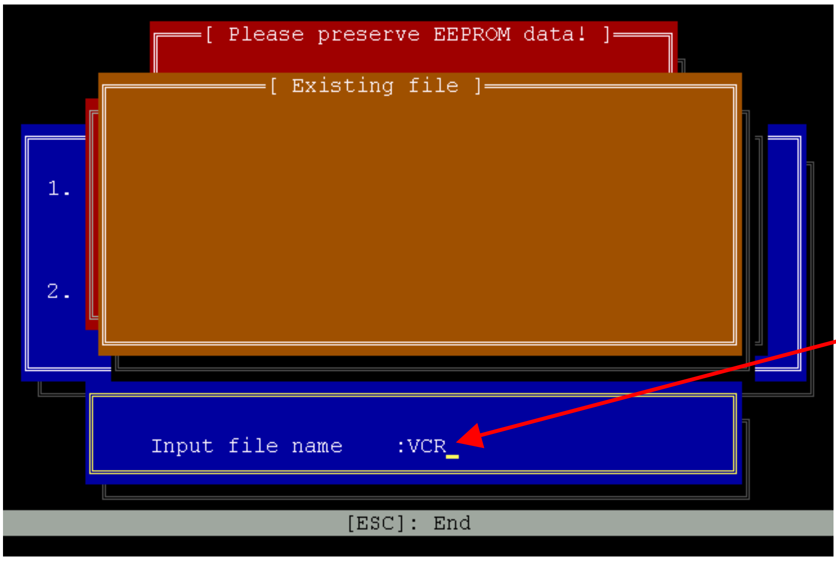
Completed. Press [ESC].
File name :CAMERA.sav

When the data is stored completed, this screen is appears. PRESS ESC KEY.



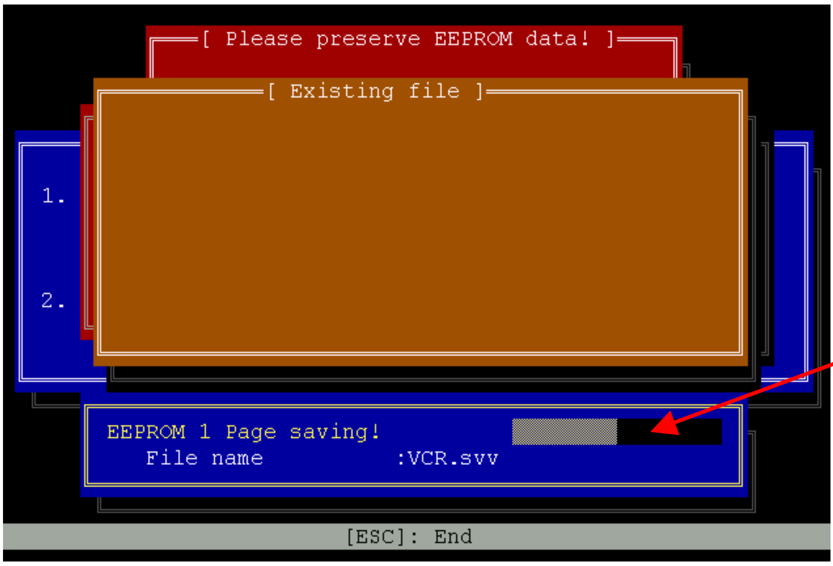
```
[ Please preserve EEPROM data! ]
 1. Save camera data.
 2. Save vcr data.
    [Esc]: Next.  [Enter]: Save.

1.
2.

Completed. Press [ESC].
File name           :CAMERA.sav

[ESC]: End
```

Return to this screen and in case of select No.2, PRESS ENTER KEY.



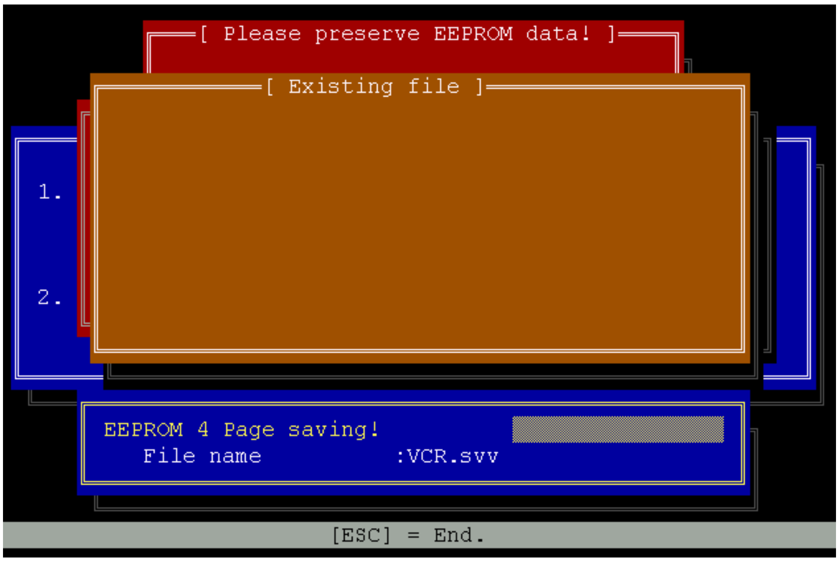
```
[ Please preserve EEPROM data! ]
[ Existing file ]
1.
2.

Input file name     :VCR_

[ESC]: End
```

Input file name and PRESS ENTER KEY.



```
[ Please preserve EEPROM data! ]
[ Existing file ]
1.
2.

EEPROM 1 Page saving!
     File name          :VCR.svv

[ESC]: End
```

Saving the data is started.


[Please preserve EEPROM data!]
[Existing file]
1.
2.

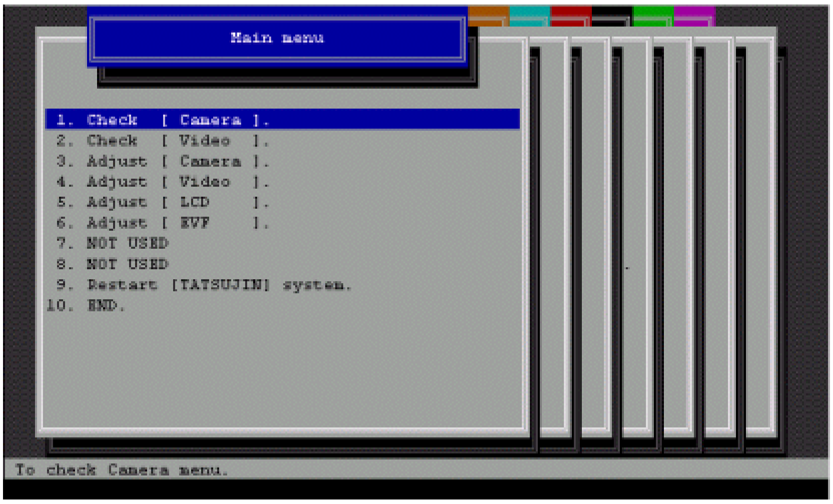
```
EEPROM 4 Page saving!
  File name          :VCR.svv
[ESC] = End.
```

When the data is stored completed, this screen appears. PRESS ESC KEY.

3-2. How to Use the Main Menu

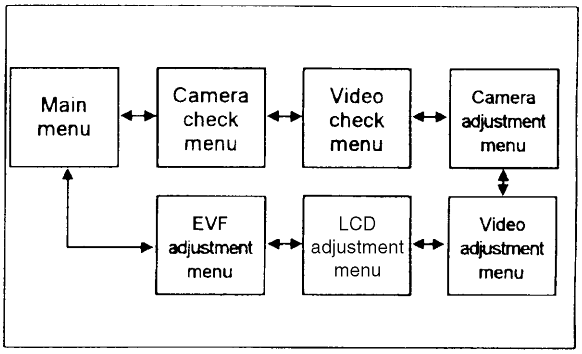
Select a Sub Menu to check, adjust the unit and etc. by pressing ↑↓ (UP/DOWN) Key in Main Menu. Then press **“ENTER”** Key. the Sub Menu will be displayed.

NOTE: Menu (pages) 3,4,5 and 6 are needed for adjustment.


Main menu
1. Check [Camera].
2. Check [Video].
3. Adjust [Camera].
4. Adjust [Video].
5. Adjust [LCD   ].
6. Adjust [EVF   ].
7. NOT USED
8. NOT USED
9. Restart [TATSUJIN] system.
10. END.

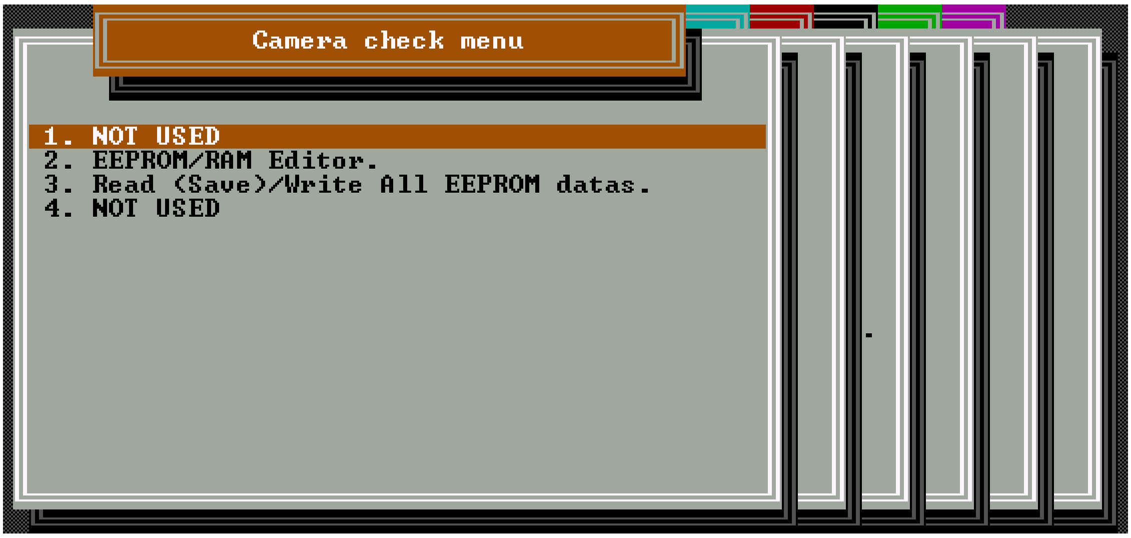
```
To check Camera menu.
```

With using ←→ keys, the menu can also be changed.


Main menu
Camera check menu
Video check menu
Camera adjustment menu
EVF adjustment menu
LCD adjustment menu
Video adjustment menu

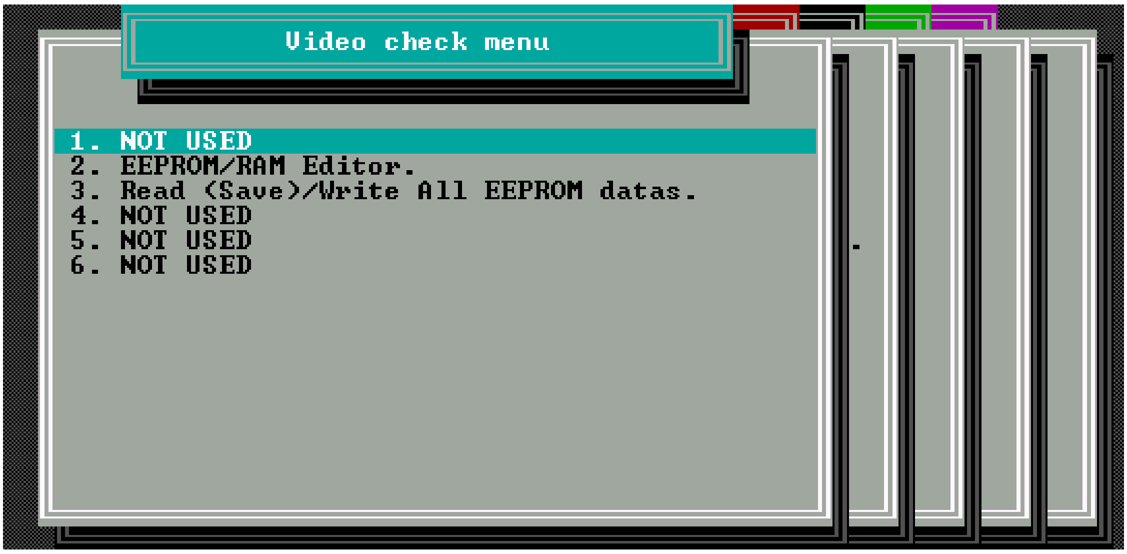
3-3. Introduction of the Sub Menu

1) Camera Check Menu



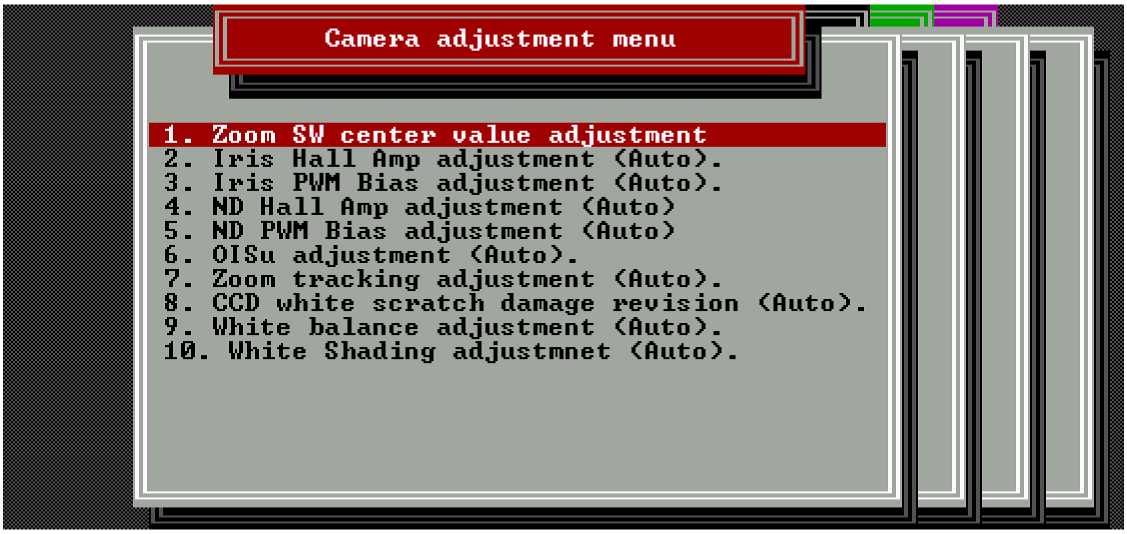
```
Camera check menu

1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED
```

2) Video Check Menu



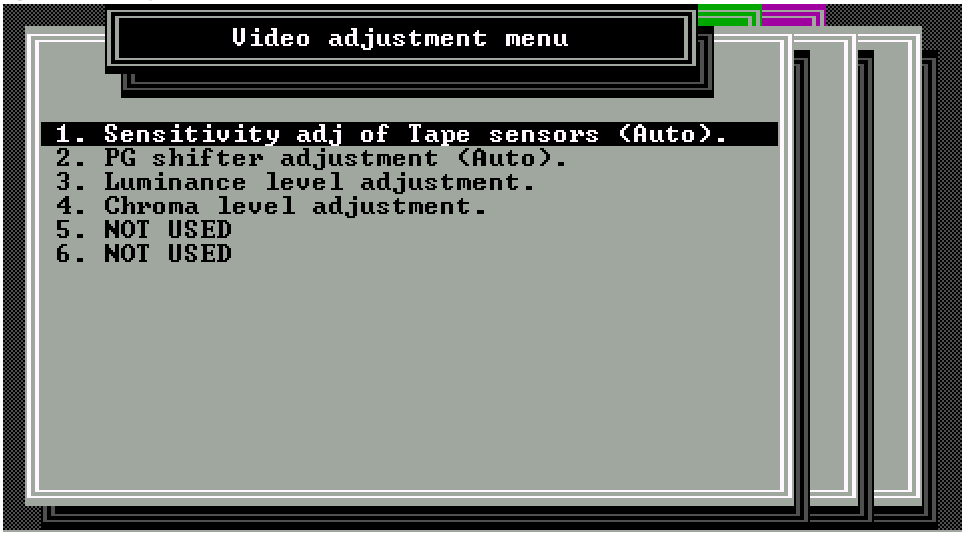
```
Video check menu

1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED
5. NOT USED
6. NOT USED
```

3) Camera Adjustment Menu



```
Camera adjustment menu

1. Zoom SW center value adjustment
2. Iris Hall Amp adjustment (Auto).
3. Iris PWM Bias adjustment (Auto).
4. ND Hall Amp adjustment (Auto)
5. ND PWM Bias adjustment (Auto)
6. OISu adjustment (Auto).
7. Zoom tracking adjustment (Auto).
8. CCD white scratch damage revision (Auto).
9. White balance adjustment (Auto).
10. White Shading adjustmnet (Auto).
```

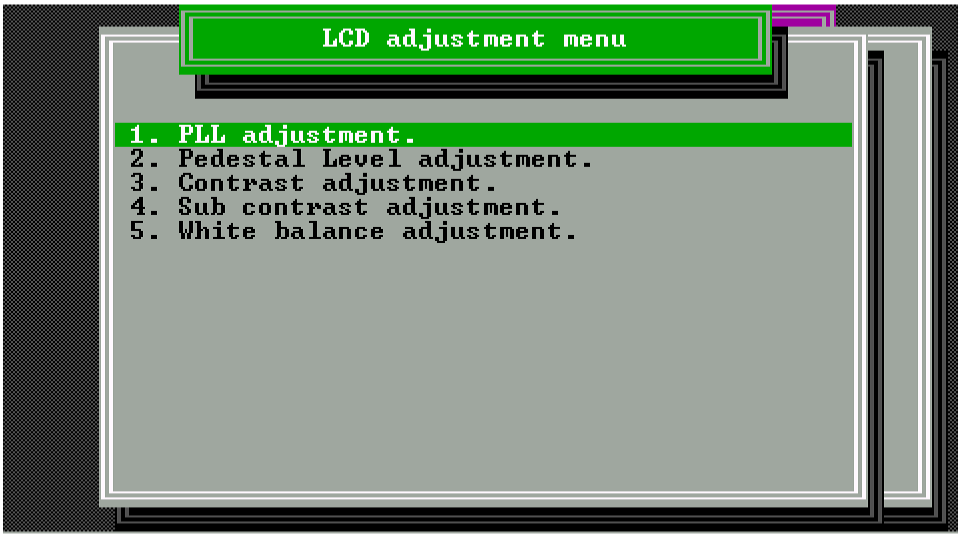
4) Video Adjustment Menu



Video adjustment menu

1. Sensitivity adj of Tape sensors (Auto).
2. PG shifter adjustment (Auto).
3. Luminance level adjustment.
4. Chroma level adjustment.
5. NOT USED
6. NOT USED

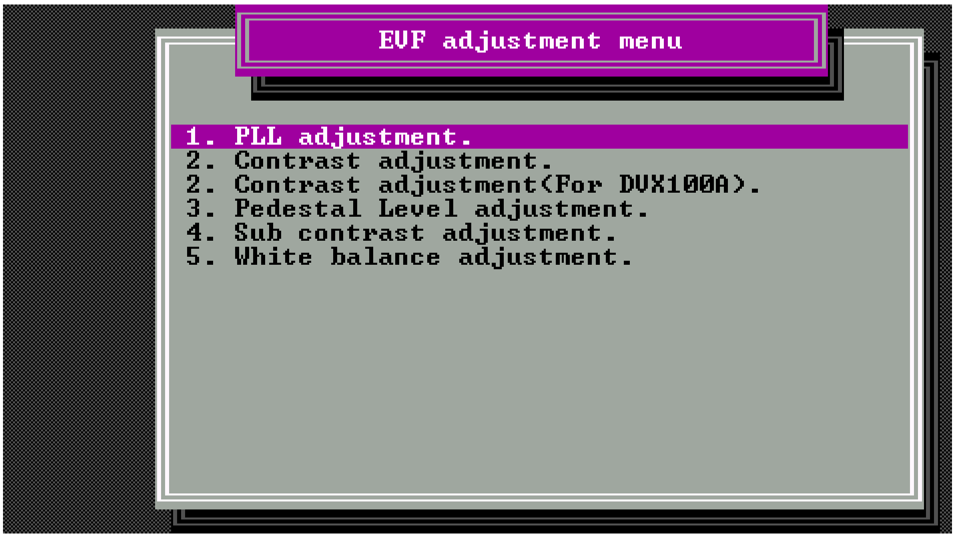
5) LCD Adjustment Menu



LCD adjustment menu

1. PLL adjustment.
2. Pedestal Level adjustment.
3. Contrast adjustment.
4. Sub contrast adjustment.
5. White balance adjustment.

6) EVF Adjustment Menu



EVF adjustment menu

1. PLL adjustment.
2. Contrast adjustment.
2. Contrast adjustment(For DVX100A).
3. Pedestal Level adjustment.
4. Sub contrast adjustment.
5. White balance adjustment.

4. EEPROM

All adjustment data has been stored in the EEPROM.
There are two EEPROM in this camera recorder as shown in the table below.

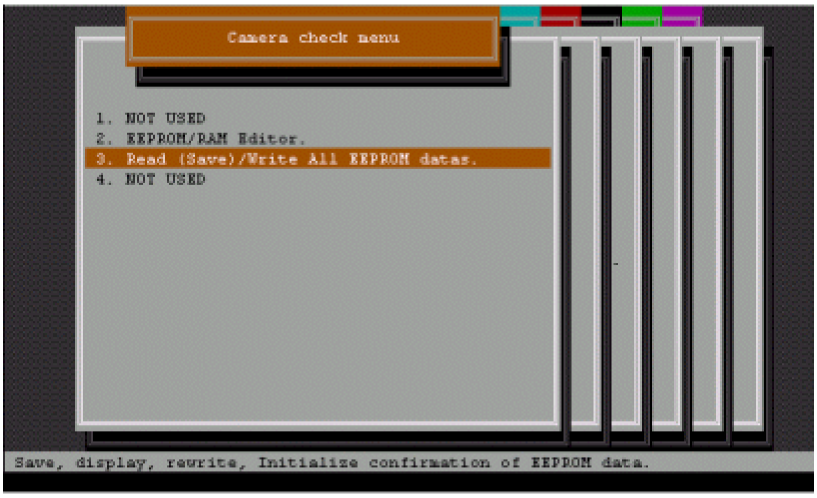
NAME	REF. No.
CAMERA EEPROM	IC3006 (CAMERA C.B.A.)
VTR EEPROM	IC2008 (VTR C.B.A.)

NOTE:
To save the EVR adjustment data to the EEPROM, follow items 4-1, 4-2, and 4-3. There is also additional data stored in this EEPROM (This EVR software can save or write only adjustment data).

NOTE:
Be sure to save both the EEPROM data into the personal computer before performing service and adjustment, in order to avoid any accidental data loss.

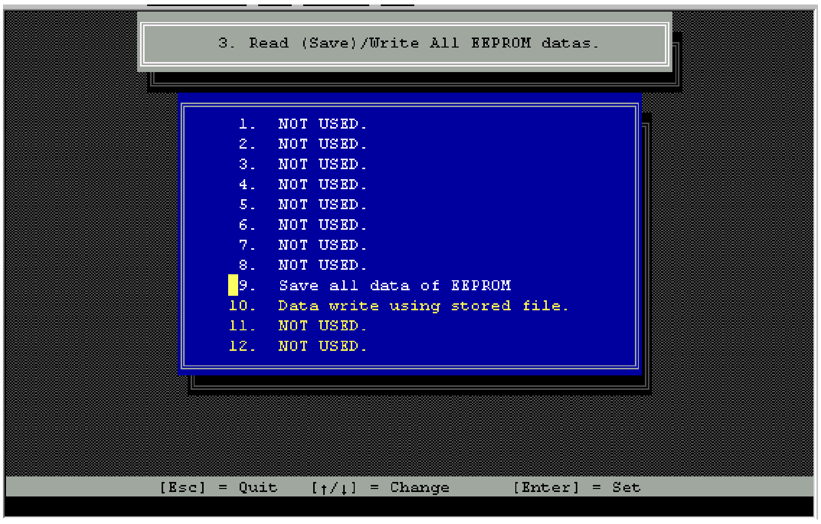
4-1. How to Save Camera Adjustment Data

1. Select **"Camera Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Camera check menu, and then press the **"Enter"** key.



```
Camera check menu

1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED

Save, display, rewrite, Initialize confirmation of EEPROM data.
```

3. Select **"9. Save all data of EEPROM"** in **"3. Read (Save) / Write All EEPROM datas"** menu, and then press the **"Enter"** key.

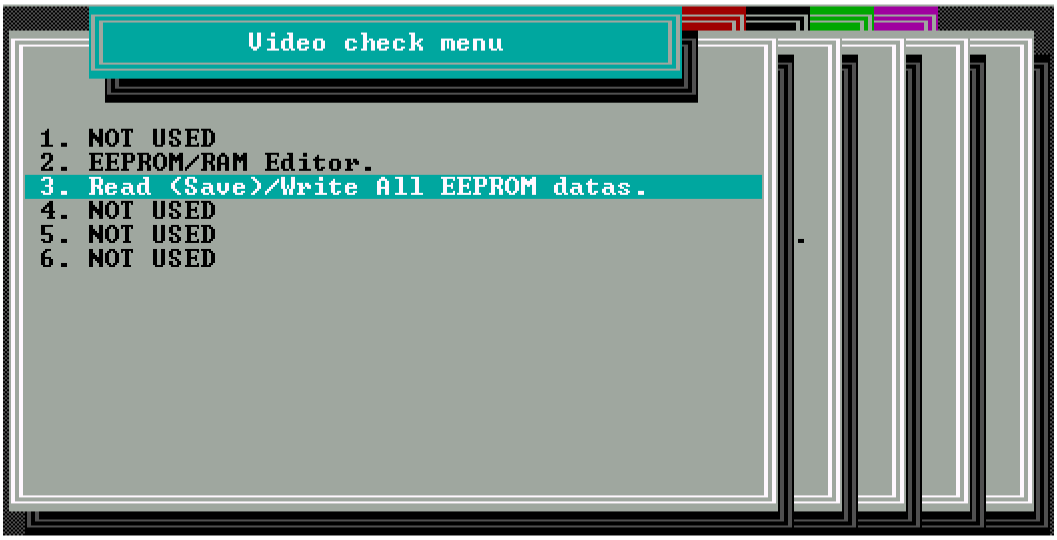


```
3. Read (Save)/Write All EEPROM datas.

 1.  NOT USED.
 2.  NOT USED.
 3.  NOT USED.
 4.  NOT USED.
 5.  NOT USED.
 6.  NOT USED.
 7.  NOT USED.
 8.  NOT USED.
 9.  Save all data of EEPROM
10.  Data write using stored file.
11.  NOT USED.
12.  NOT USED.

[Esc] = Quit   [↑/↓] = Change    [Enter] = Set
```

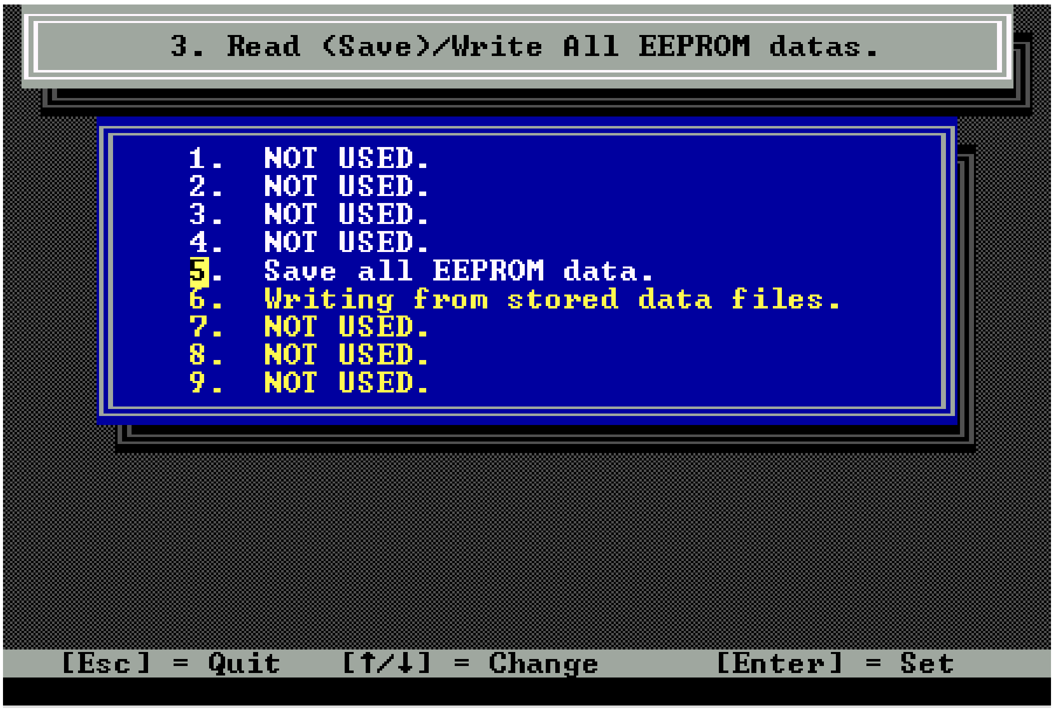
4. Type the File name and, then press the **"Enter"** key. The data of adjustment value can be stored in the personal computer. (Please refer to item **"3-1. BOOT UP THE ADJUSTMENT SOFTWARE"**)

4-2. How to Save VTR Adjustment Data

1. Select **"Video Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Video check menu, and then press the **"Enter"** key.


Video check menu
1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED
5. NOT USED
6. NOT USED

3. Select **"5. Save all EEPROM data"** in **"3. Read (Save) / Write All EEPROM datas"** menu, and then press the **"Enter"** key.


3. Read (Save)/Write All EEPROM datas.
1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. Save all EEPROM data.
6. Writing from stored data files.
7. NOT USED.
8. NOT USED.
9. NOT USED.
[Esc] = Quit
[↑/↓] = Change
[Enter] = Set

4. Type the File name, and then press the **"Enter"** key. The data of adjustment value will be stored in the personal computer.

4-3. REWRITE Adjustment Data

4-3-1. How to Rewrite Adjustment data on Camera C.B.A.

1. Select **“Camera Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“3. Read (Save) / Write All EEPROM datas”** in the Camera check menu, and then press the **“Enter”** key.
3. Select **“10. Data write using stored file”** in **“3. Read (Save) / Write All EEPROM datas”** menu, and then press the **“Enter”** key.
4. Type the saved file name, and then press the **“Enter”** key.
5. Select **“9. EEPROM ALL (2 Kbyte)”**, and then press the **“Enter”** key.
6. The adjustment data will be written in EEPROM (IC3006).

4-3-2. How to Rewrite Adjustment data on VTR C.B.A.

1. Select **“Video Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“3. Read (Save) / Write All EEPROM datas”** in the Video check menu, and then press the **“Enter”** key.
3. Select **“6. Writing from the stored data files”** in the **“3. Read (Save) / Write All EEPROM datas”** menu, and then press **“Enter”** key.
4. Type the saved file name, and then press the **“Enter”** key.
5. Select **“5. Write EEPROM (1024 byte)”**, and then press the **“Enter”** key.
6. The adjustment data can be written in EEPROM (IC2008).

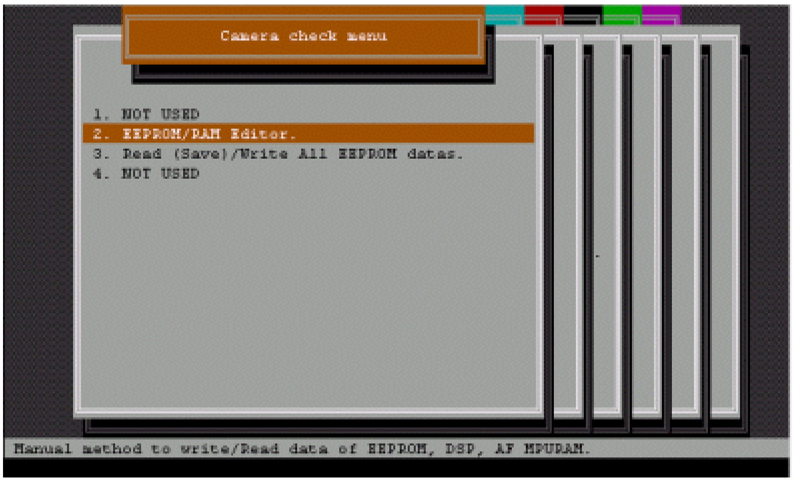
4-4. How to change the EEPROM Data.

EEPROM data can be changed individuality address unit. When changing EEPROM data with this EVR software, it uses item "2. EEPROM/RAM Editor" of each check menu.

NOTE: Before changing the Camera or VTR EEPROM data, be sure to save ALL EEPROM data into the personal computer to avoid any accidental data loss. Regarding the saving method, refer to item 4-1 and 4-2 in this section.

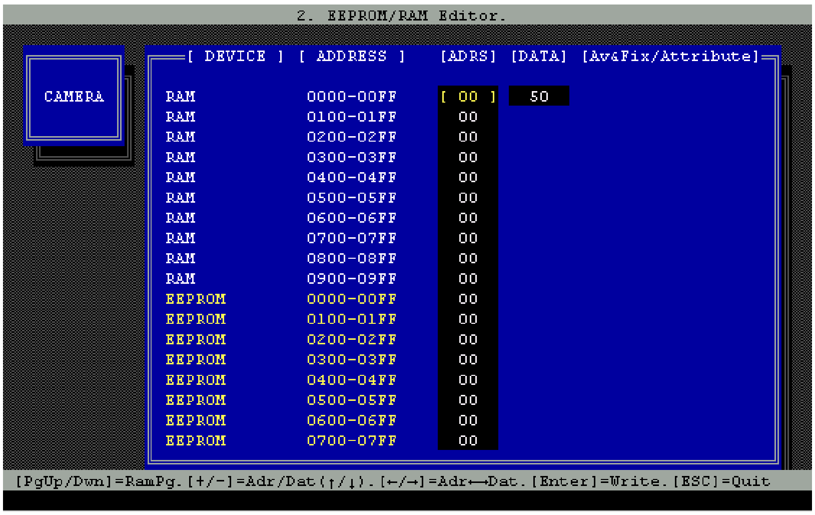
4-4-1. How to change the CAMERA EEPROM data.

1. Boot up EVR software and open the Camera check menu.
2. Select **“2. EEPROM/RAM Editor”** and press **“ENTER”** key.



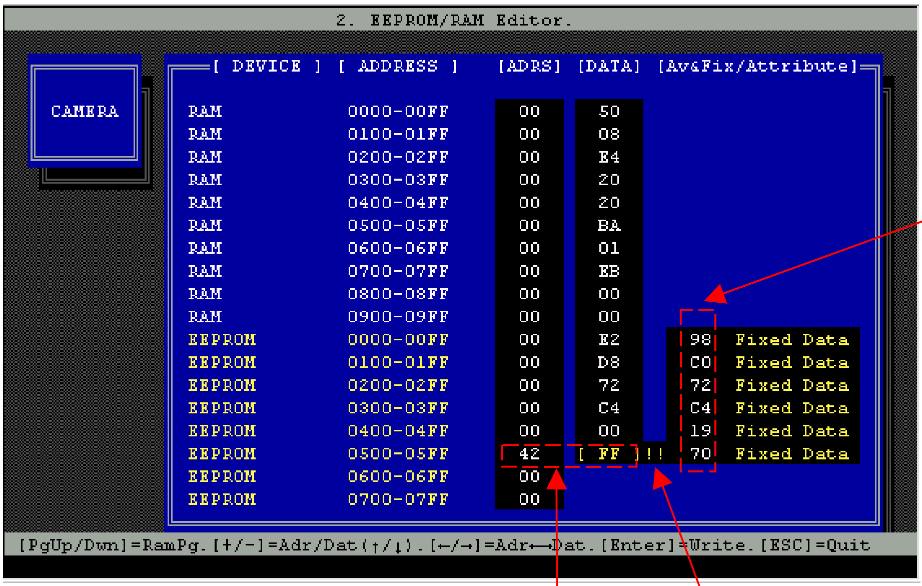
```
Camera check menu

1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED

Manual method to write/Read data of EEPROM, DSP, AF MPURAM.
```

3. Below indicated screen is displayed.



```
                    2. EEPROM/RAM Editor.

 CAMERA   [ DEVICE ] [ ADDRESS ]   [ADRS] [DATA] [Av&Fix/Attribute]

          RAM        0000-00FF     [ 00 ]   50
          RAM        0100-01FF       00
          RAM        0200-02FF       00
          RAM        0300-03FF       00
          RAM        0400-04FF       00
          RAM        0500-05FF       00
          RAM        0600-06FF       00
          RAM        0700-07FF       00
          RAM        0800-08FF       00
          RAM        0900-09FF       00
          EEPROM     0000-00FF       00
          EEPROM     0100-01FF       00
          EEPROM     0200-02FF       00
          EEPROM     0300-03FF       00
          EEPROM     0400-04FF       00
          EEPROM     0500-05FF       00
          EEPROM     0600-06FF       00
          EEPROM     0700-07FF       00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

4. In case of data is change to FF from 70 on address 0542, select a line **"EEPROM 0500-05FF"** by arrow key (↑/↓) and input a value as 42 to column [ADRS]. Next cursor is moved to column [DATA] by arrow key (→/←) and input a value as FF. And press ENTER key to write to EEPROM.



```
                    2. EEPROM/RAM Editor.

 CAMERA   [ DEVICE ] [ ADDRESS ]   [ADRS] [DATA] [Av&Fix/Attribute]

          RAM        0000-00FF       00     50
          RAM        0100-01FF       00     08
          RAM        0200-02FF       00     E4
          RAM        0300-03FF       00     20
          RAM        0400-04FF       00     20
          RAM        0500-05FF       00     BA
          RAM        0600-06FF       00     01
          RAM        0700-07FF       00     EB
          RAM        0800-08FF       00     00
          RAM        0900-09FF       00     00
          EEPROM     0000-00FF       00     E2      98  Fixed Data
          EEPROM     0100-01FF       00     D8      C0  Fixed Data
          EEPROM     0200-02FF       00     72      72  Fixed Data
          EEPROM     0300-03FF       00     C4      C4  Fixed Data
          EEPROM     0400-04FF       00     00      19  Fixed Data
          EEPROM     0500-05FF       42   [ FF ]!!  70  Fixed Data
          EEPROM     0600-06FF       00
          EEPROM     0700-07FF       00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

NOTE: This data is not original data. Do not use this data.

After writing data, mark **"!!"** is displayed momentary.

Input data as [ADRS] is 42 and [DATA] is FF and press ENTER key

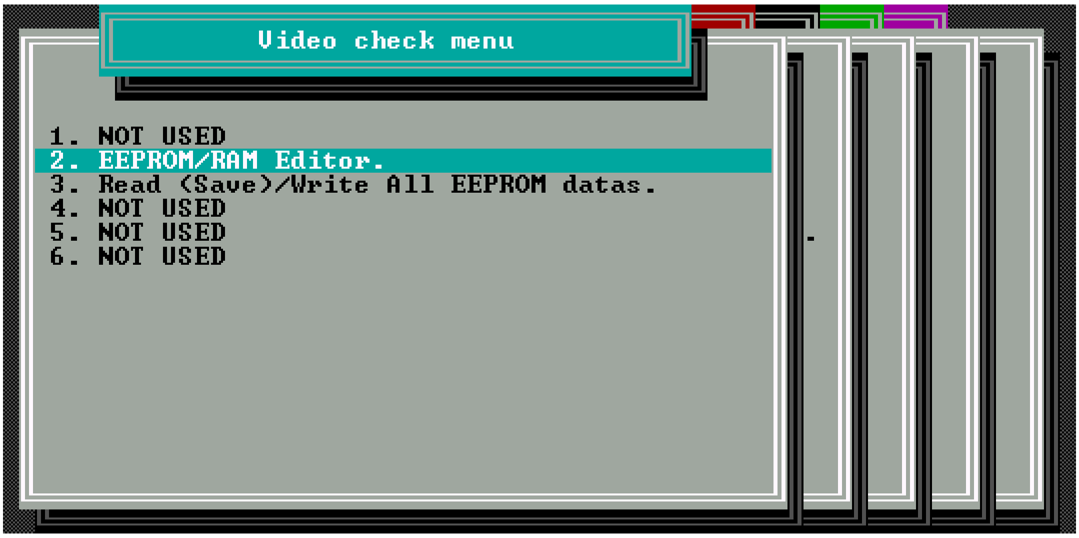
5. Please change the other part of address data follow the above description.

NOTE: The address is indicated as 4 digits of numerical value. Select the line based on first 2 digit and value behind 2 digit is input value to column [ADRS].

EEPROM 0000-00FF ◄── In case of 00ED, select the line of **"0000-00FF"**.
EEPROM 0100-01FF
EEPROM 0200-02FF
EEPROM 0300-03FF
EEPROM 0400-04FF
EEPROM 0500-05FF ◄── In case of 0542, select the line of **"0500-05FF"**
EEPROM 0600-06FF
EEPROM 0700-07FF

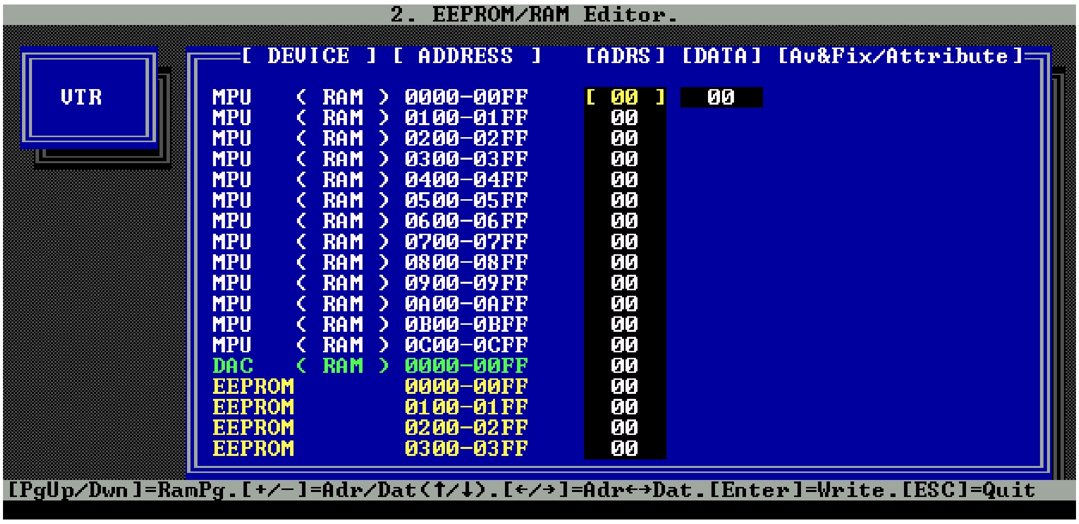
4-4-2. How to change the VTR EEPROM data.

1. Boot up EVR software and open the Video check menu.
2. Select **“2. EEPROM/RAM Editor”** and press **“ENTER”** key.



```
Video check menu

1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED
5. NOT USED
6. NOT USED
```

3. Below indicated screen is displayed.



```
2. EEPROM/RAM Editor.

VTR

[ DEVICE ] [ ADDRESS ]    [ADRS] [DATA] [Av&Fix/Attribute]

MPU    ( RAM ) 0000-00FF   [ 00 ]   00
MPU    ( RAM ) 0100-01FF     00
MPU    ( RAM ) 0200-02FF     00
MPU    ( RAM ) 0300-03FF     00
MPU    ( RAM ) 0400-04FF     00
MPU    ( RAM ) 0500-05FF     00
MPU    ( RAM ) 0600-06FF     00
MPU    ( RAM ) 0700-07FF     00
MPU    ( RAM ) 0800-08FF     00
MPU    ( RAM ) 0900-09FF     00
MPU    ( RAM ) 0A00-0AFF     00
MPU    ( RAM ) 0B00-0BFF     00
MPU    ( RAM ) 0C00-0CFF     00
DAC    ( RAM ) 0000-00FF     00
EEPROM         0000-00FF     00
EEPROM         0100-01FF     00
EEPROM         0200-02FF     00
EEPROM         0300-03FF     00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

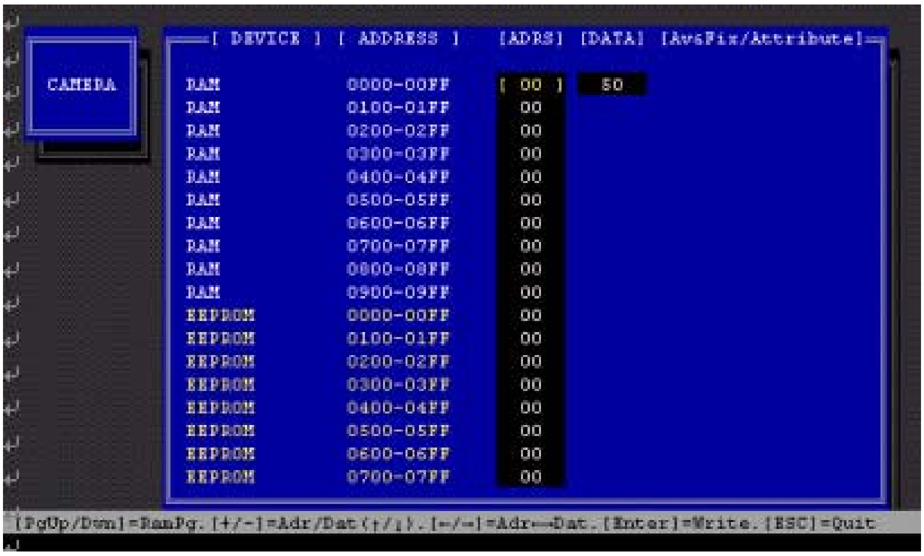
4. How changing the EEPROM data is the same as CAMERA EEPROM refer to previous item 4-4-1.

5. ZOOM SW Center Value Adjustment

Be sure to save the CAMERA adjustment data into the Personal Computer, before performing adjustment.

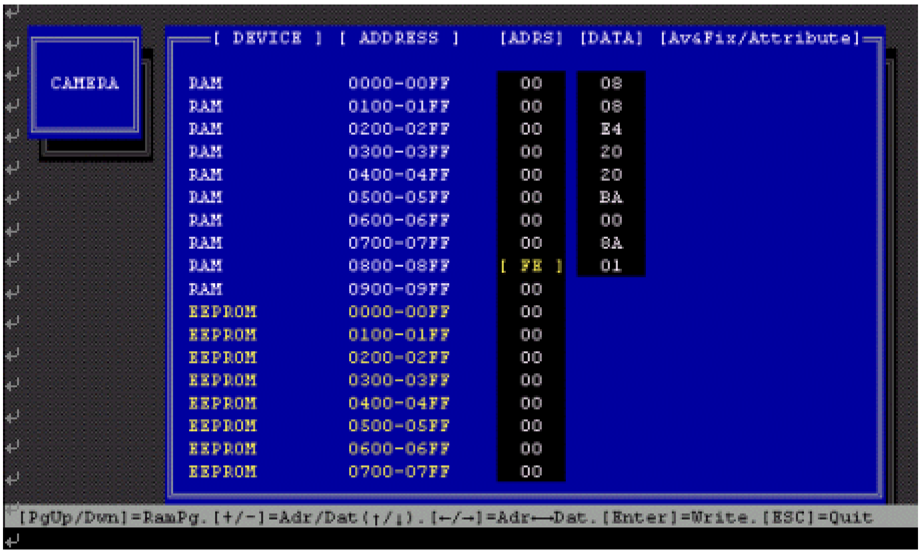
This adjustment has to be performed, when the CASSETTE COVER UNIT or ZOOM SW in CASSETTE COVER UNIT is replaced.

1. Open the **“Camera adjustment menu”**.
2. Select **“1. Zoom SW center value adjustment”** in the camera adjustment menu, and then press **“ENTER”** key.
3. Set to CAMERA mode in camera recorder following the message **“Auto / Manually set to CAMERA mode.”**, and then press **“ENTER”** key.
4. Below indicated screen is displayed.



```
CAMERA   [ DEVICE ] [ ADDRESS ]    [ADRS] [DATA] [Av&Fix/Attribute]
         RAM        0000-00FF      [ 00 ]   50
         RAM        0100-01FF        00
         RAM        0200-02FF        00
         RAM        0300-03FF        00
         RAM        0400-04FF        00
         RAM        0500-05FF        00
         RAM        0600-06FF        00
         RAM        0700-07FF        00
         RAM        0800-08FF        00
         RAM        0900-09FF        00
         EEPROM     0000-00FF        00
         EEPROM     0100-01FF        00
         EEPROM     0200-02FF        00
         EEPROM     0300-03FF        00
         EEPROM     0400-04FF        00
         EEPROM     0500-05FF        00
         EEPROM     0600-06FF        00
         EEPROM     0700-07FF        00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

5. Select a line **“RAM   0800 - 08FF”** by arrow key (↑/↓) and input a value as FE to column [ADRS].
6. Press Tele side of zoom switch on Grip Cover side to fully Tele position and release a finger slowly from button.
7. Write down displayed numerical value in column [DATA].

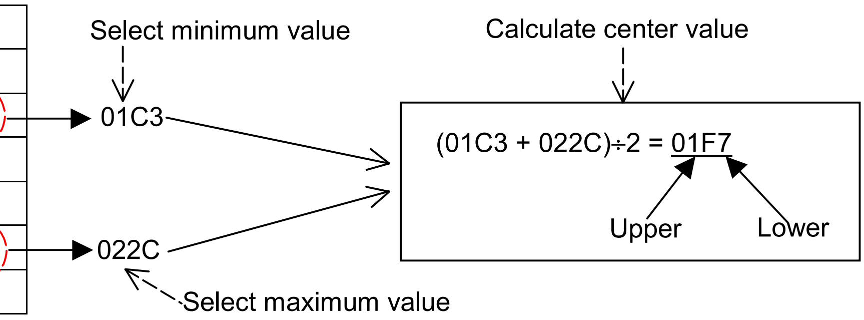


```
CAMERA   [ DEVICE ] [ ADDRESS ]    [ADRS] [DATA] [Av&Fix/Attribute]
         RAM        0000-00FF        00     08
         RAM        0100-01FF        00     08
         RAM        0200-02FF        00     E4
         RAM        0300-03FF        00     20
         RAM        0400-04FF        00     20
         RAM        0500-05FF        00     BA
         RAM        0600-06FF        00     00
         RAM        0700-07FF        00     8A
         RAM        0800-08FF      [ FE ]   01
         RAM        0900-09FF        00
         EEPROM     0000-00FF        00
         EEPROM     0100-01FF        00
         EEPROM     0200-02FF        00
         EEPROM     0300-03FF        00
         EEPROM     0400-04FF        00
         EEPROM     0500-05FF        00
         EEPROM     0600-06FF        00
         EEPROM     0700-07FF        00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

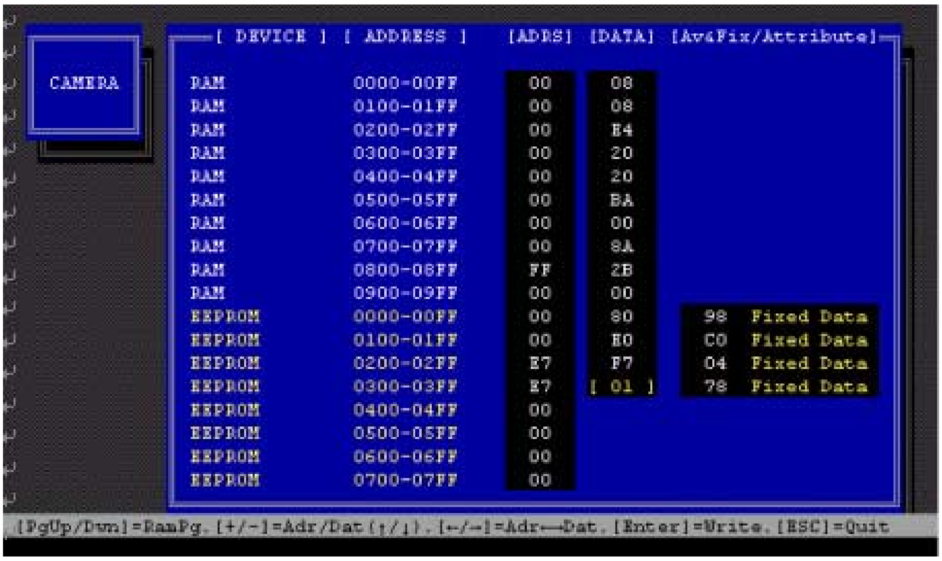
8. Input a value FF to column [ADRS] on line **“RAM   0800 - 08FF”** .
9. Write down displayed numerical value in column [DATA].
10. Repeat step 5 to 9 twice to write down the value.
11. Select the minimum measurement value.
12. Press Wide side of zoom switch on Cassette Cover side to fully wide position and release a finger slowly from button and repeat step 5 to 9 three times.
13. Select the maximum measurement value.

<For example>

---	FE (Upper)	FF (Lower)
Tele	01	C3
	01	C5
	01	C7
Wide	02	2C
	02	2C
	02	2B



14. Calculate center value of minimum and maximum value.
15. Select a line **"EEPROM 0200 - 02FF"** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
16. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as lower data value (for example: F7 as indicated as above). And press ENTER key to write to EEPROM.
17. Select a line **"EEPROM 0300 - 03FF"** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
18. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as upper data value (for example: 01 as indicated as above). And press ENTER key to write to EEPROM.



```
CAMERA

[ DEVICE ] [ ADDRESS ]   [ADRS] [DATA] [Av&Fix/Attribute]

RAM          0000-00FF    00     08
RAM          0100-01FF    00     08
RAM          0200-02FF    00     E4
RAM          0300-03FF    00     20
RAM          0400-04FF    00     20
RAM          0500-05FF    00     BA
RAM          0600-06FF    00     00
RAM          0700-07FF    00     8A
RAM          0800-08FF    FF     2B
RAM          0900-09FF    00     00
EEPROM       0000-00FF    00     80      98  Fixed Data
EEPROM       0100-01FF    00     E0      C0  Fixed Data
EEPROM       0200-02FF    E7     F7      04  Fixed Data
EEPROM       0300-03FF    E7   [ 01 ]    78  Fixed Data
EEPROM       0400-04FF    00
EEPROM       0500-05FF    00
EEPROM       0600-06FF    00
EEPROM       0700-07FF    00

[PgUp/Dwn]=RamPg. [+/-]=Adr/Dat(↑/↓). [←/→]=Adr←→Dat. [Enter]=Write. [ESC]=Quit
```

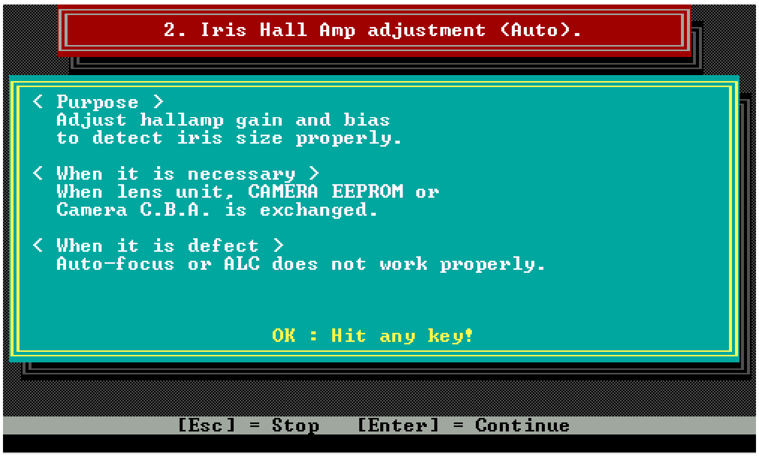
6. CAMERA ADJUSTMENT PROCEDURE

Be sure to save the Camera adjustment data into the Personal Computer, before performing adjustment.
Perform all PC-EVR adjustments, by referring to procedures on PC screen.

6-1. Iris Hall Amp Adjustment (AUTO)

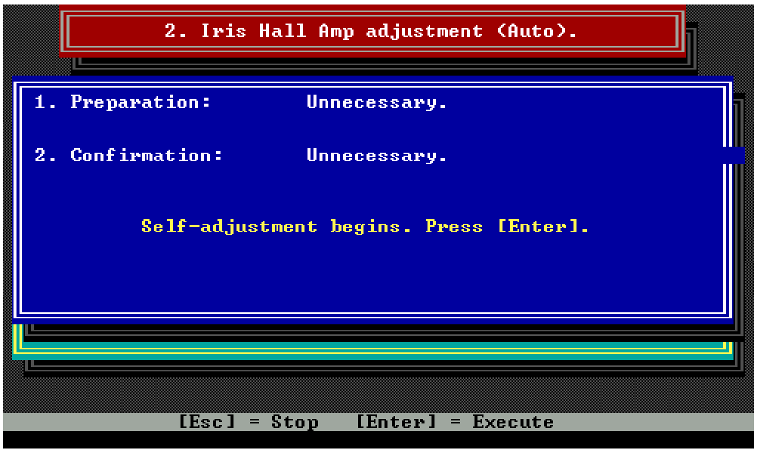
This adjustment is automatically executed.

1. Open the **“Camera adjustment menu”**. Please
2. Select **“2. Iris Hall Amp adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



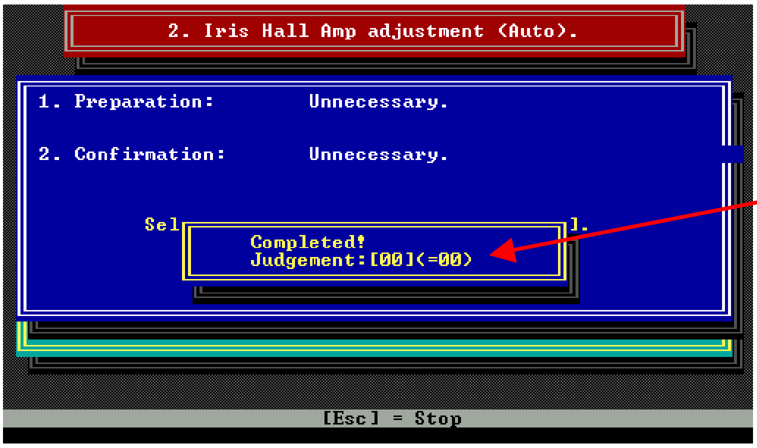
```
2. Iris Hall Amp adjustment (Auto).

< Purpose >
  Adjust hallamp gain and bias
  to detect iris size properly.

< When it is necessary >
  When lens unit, CAMERA EEPROM or
  Camera C.B.A. is exchanged.

< When it is defect >
  Auto-focus or ALC does not work properly.

                 OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
2. Iris Hall Amp adjustment (Auto).

1. Preparation:        Unnecessary.

2. Confirmation:       Unnecessary.

       Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



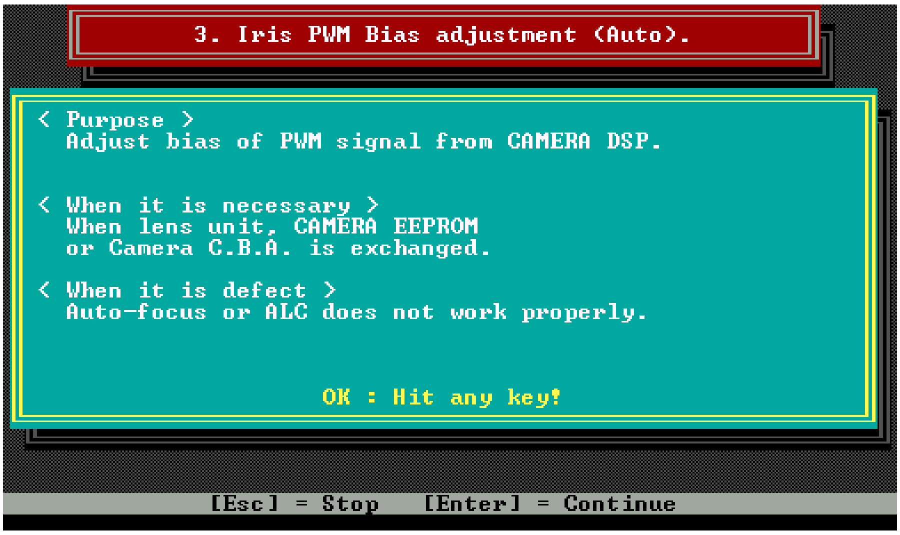
```
2. Iris Hall Amp adjustment (Auto).

1. Preparation:        Unnecessary.

2. Confirmation:       Unnecessary.

       Sel                              ].
            Completed!
            Judgement:[00](=00)

             [Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-2. Iris PWM Bias Adjustment (AUTO)

This adjustment is automatically executed.

1. Open the **"Camera adjustment menu"**.
2. Select **"3. Iris PWM Bias adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



3. Iris PWM Bias adjustment (Auto).

< Purpose >
Adjust bias of PWM signal from CAMERA DSP.

< When it is necessary >
When lens unit, CAMERA EEPROM
or Camera C.B.A. is exchanged.

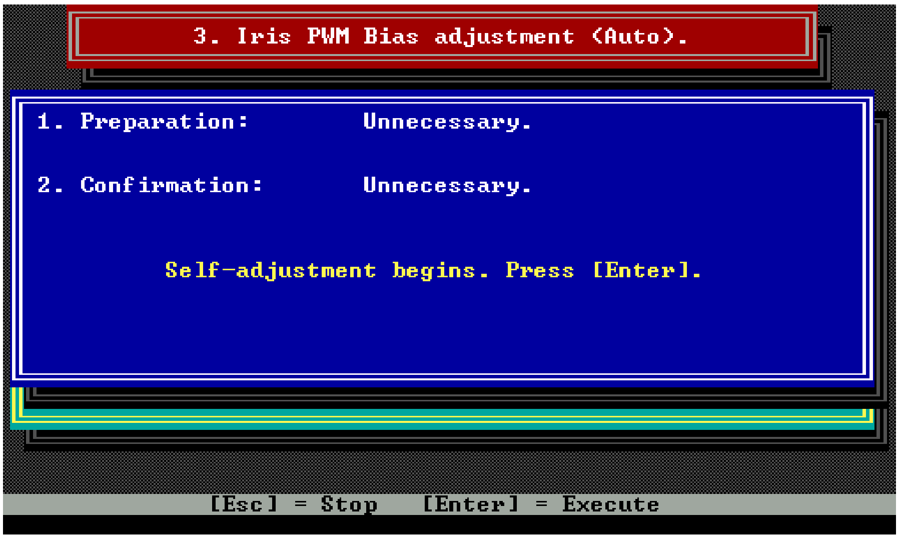
< When it is defect >
Auto-focus or ALC does not work properly.

OK : Hit any key!

[Esc] = Stop [Enter] = Continue

PRESS ENTER KEY.

⇩



3. Iris PWM Bias adjustment (Auto).

1. Preparation: Unnecessary.

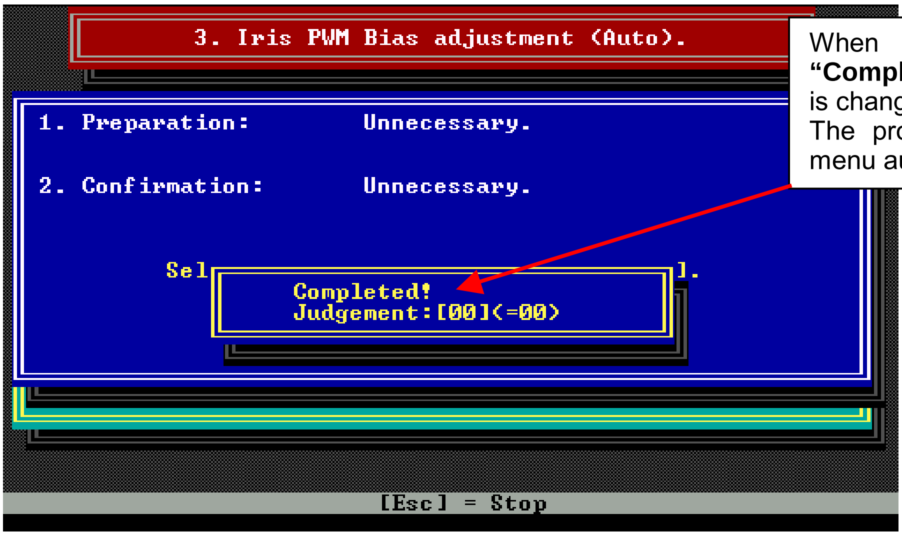
2. Confirmation: Unnecessary.

Self-adjustment begins. Press [Enter].

[Esc] = Stop [Enter] = Execute

PRESS ENTER KEY,
then adjustment is started.

⇩



3. Iris PWM Bias adjustment (Auto).

1. Preparation: Unnecessary.

2. Confirmation: Unnecessary.

Sel].

Completed!
Judgement:[00](=00)

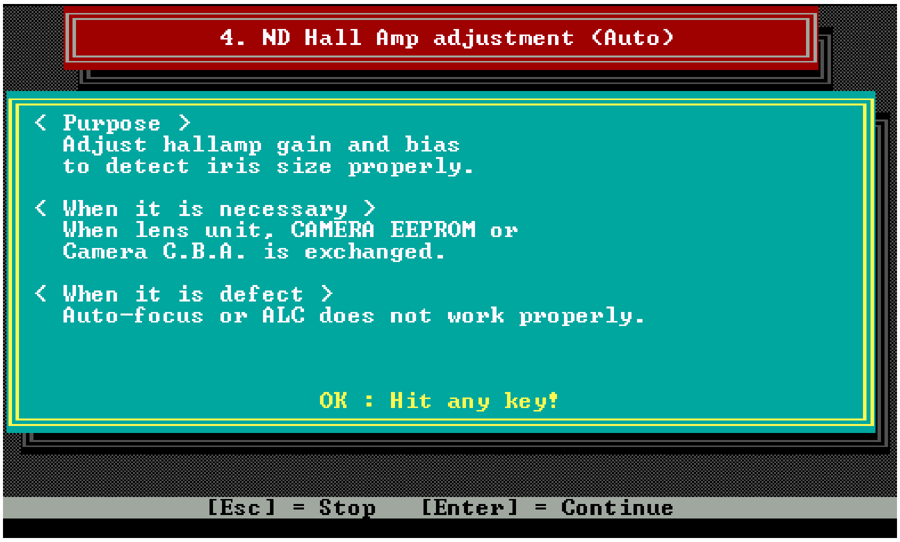
[Esc] = Stop

When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

6-3. ND Hall Amp Adjustment (AUTO)

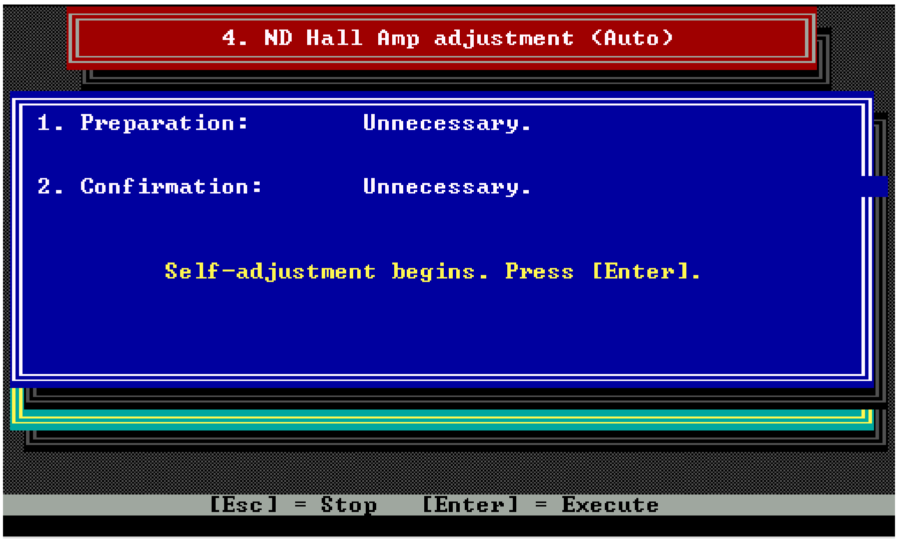
This adjustment is automatically executed.

1. Open the **"Camera adjustment menu"**.
2. Select **"4. ND Hall Amp adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



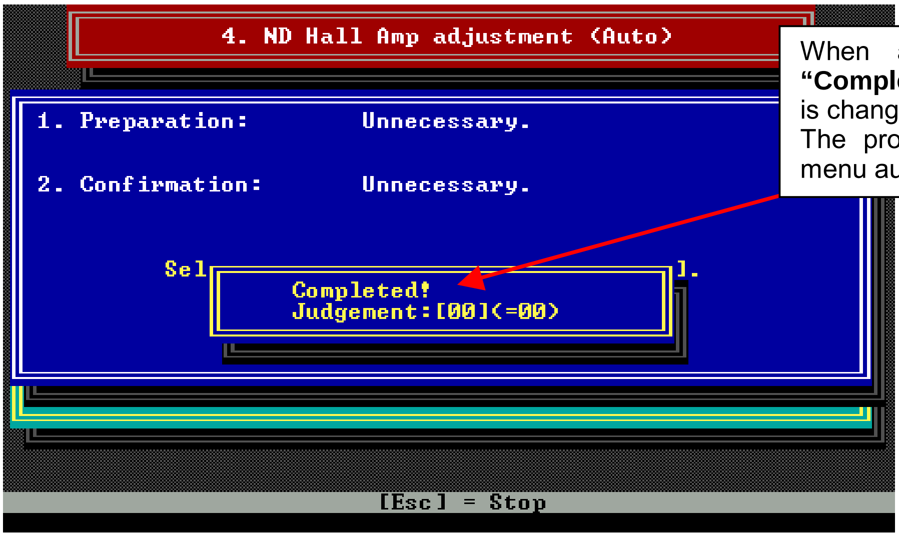
```
4. ND Hall Amp adjustment (Auto)

< Purpose >
  Adjust hallamp gain and bias
  to detect iris size properly.

< When it is necessary >
  When lens unit, CAMERA EEPROM or
  Camera C.B.A. is exchanged.

< When it is defect >
  Auto-focus or ALC does not work properly.

                 OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
4. ND Hall Amp adjustment (Auto)

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

       Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY,
then adjustment is started.



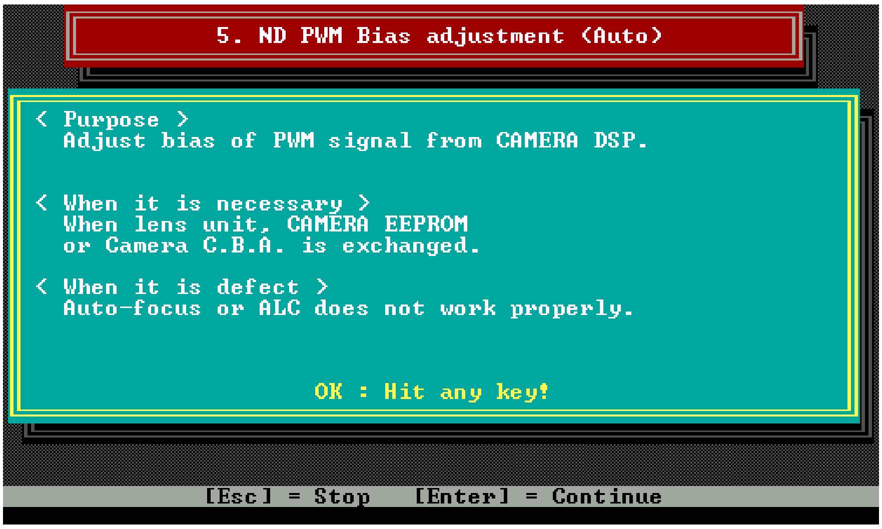
```
4. ND Hall Amp adjustment (Auto)

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

       Sel                            ].
             Completed!
             Judgement:[00](=00)

              [Esc] = Stop
```

When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

6-4. ND PWM Bias Adjustment (AUTO)

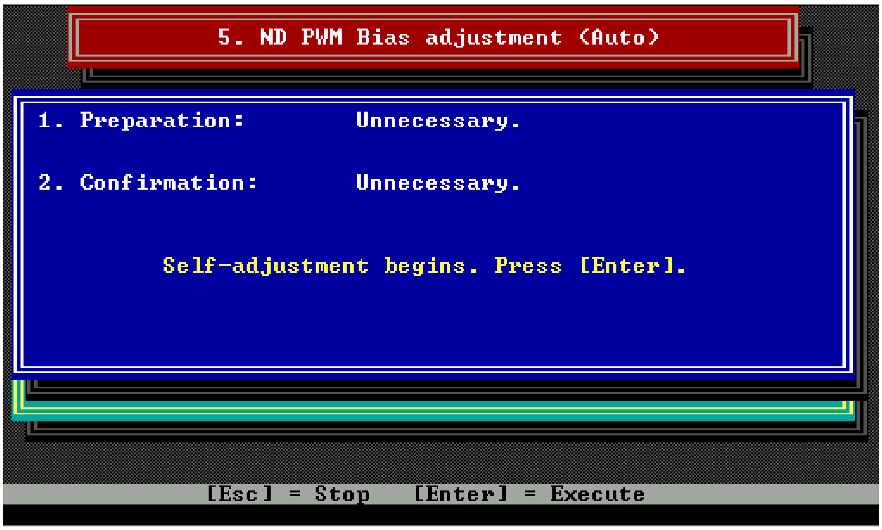
This adjustment is automatically executed.

1. Open the **"Camera adjustment menu"**.
2. Select **"5. ND PWM Bias adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



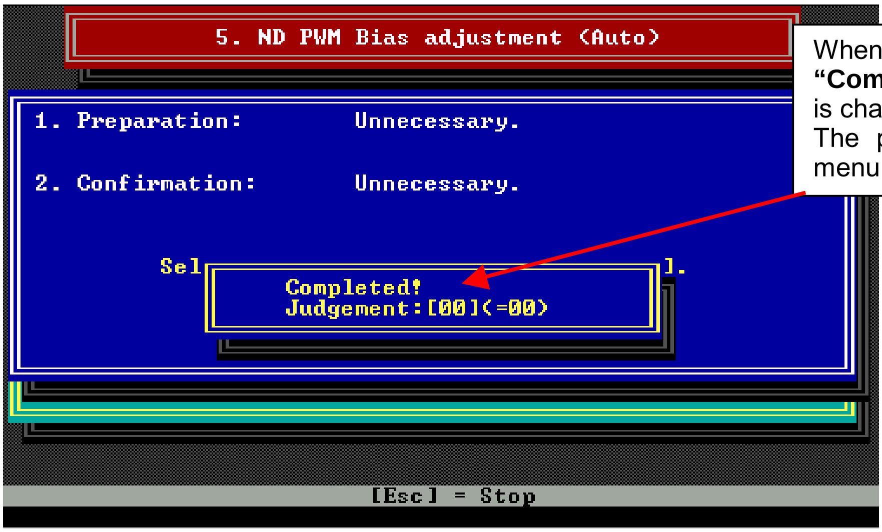
```
5. ND PWM Bias adjustment (Auto)

< Purpose >
  Adjust bias of PWM signal from CAMERA DSP.

< When it is necessary >
  When lens unit, CAMERA EEPROM
  or Camera C.B.A. is exchanged.

< When it is defect >
  Auto-focus or ALC does not work properly.

                 OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
5. ND PWM Bias adjustment (Auto)

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

        Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY,
then adjustment is started.



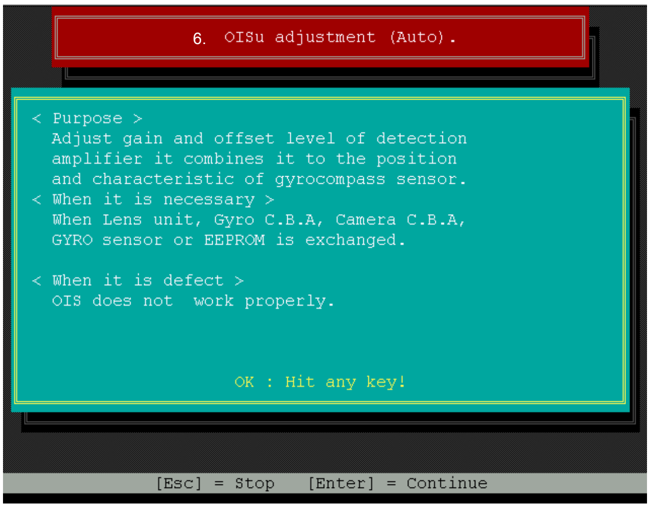
```
5. ND PWM Bias adjustment (Auto)

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

        Sel                              ].
              Completed!
              Judgement:[00](=00)

              [Esc] = Stop
```

When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

6-5. OISu Adjustment (AUTO)

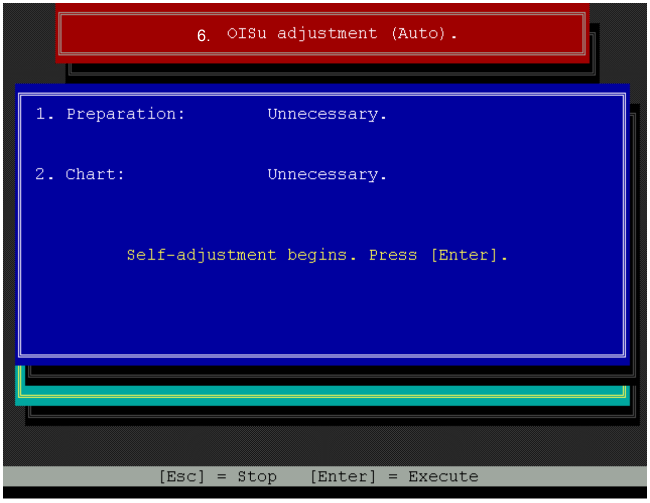
This adjustment is automatically executed.

1. Open the **“Camera adjustment menu”**.
2. Select **“6. OISu adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
6.  OISu adjustment (Auto).

< Purpose >
  Adjust gain and offset level of detection
  amplifier it combines it to the position
  and characteristic of gyrocompass sensor.
< When it is necessary >
  When Lens unit, Gyro C.B.A, Camera C.B.A,
  GYRO sensor or EEPROM is exchanged.

< When it is defect >
  OIS does not  work properly.


                OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

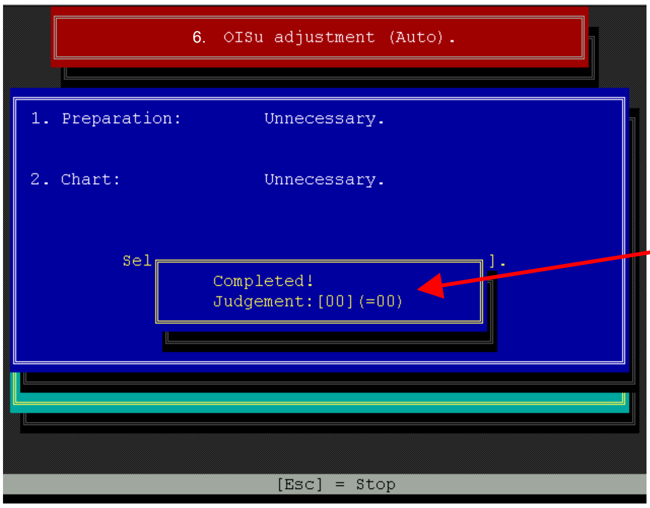
PRESS ENTER KEY.



```
6.  OISu adjustment (Auto).

1. Preparation:          Unnecessary.

2. Chart:                Unnecessary.


        Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.

NOTE: You will hear a tapping sound, this is OK.



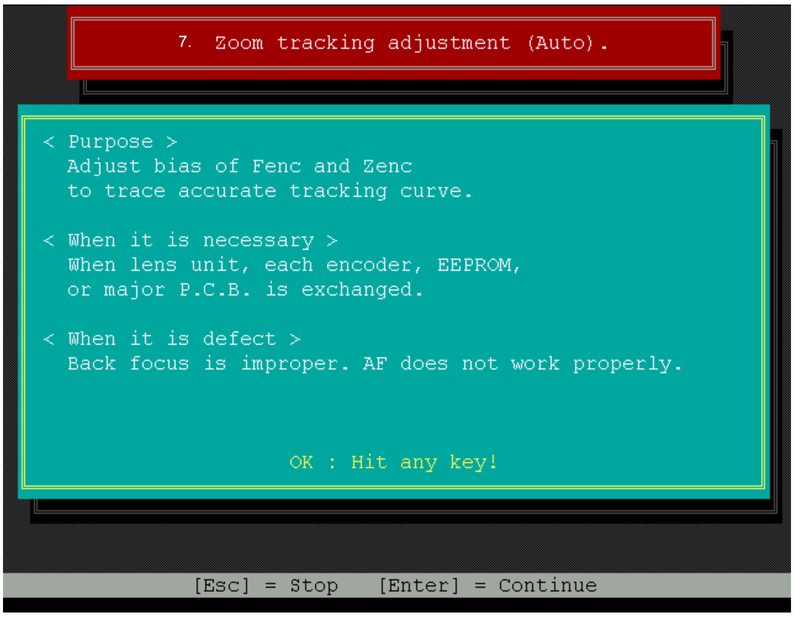
```
6.  OISu adjustment (Auto).

1. Preparation:          Unnecessary.

2. Chart:                Unnecessary.


        Sel                             ].
              Completed!
              Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-6. Zoom Tracking Adjustment (AUTO)

This adjustment is automatically executed.

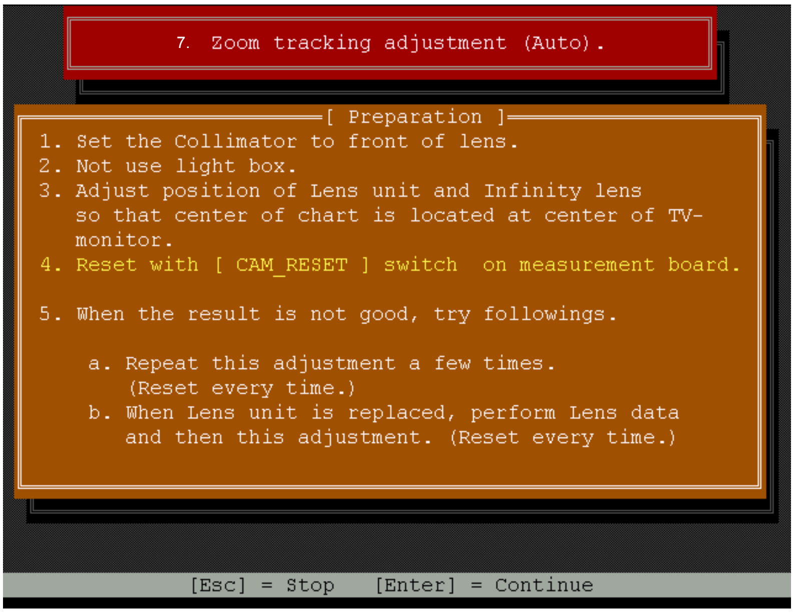
1. Set the 43mm attachment ring (VFK1164TAR43) to front of the Lens.
2. Set the Collimator (VFK1164TCM01) to 43mm attachment ring (VFK1164TAR43) to
3. Open the **"Camera adjustment menu"**.
4. Select **"7. Zoom Tracking adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
5. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



```
7. Zoom tracking adjustment (Auto).

< Purpose >
  Adjust bias of Fenc and Zenc
  to trace accurate tracking curve.

< When it is necessary >
  When lens unit, each encoder, EEPROM,
  or major P.C.B. is exchanged.

< When it is defect >
  Back focus is improper. AF does not work properly.


                    OK : Hit any key!

        [Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.

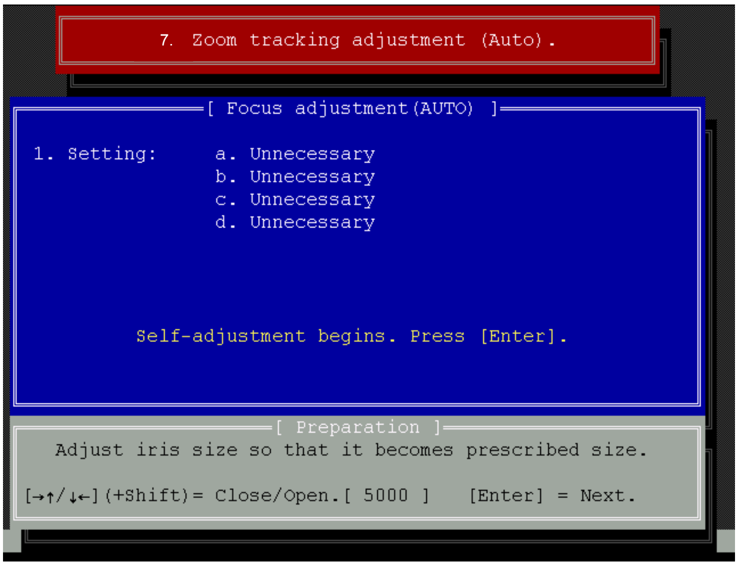
⇩



```
7. Zoom tracking adjustment (Auto).

[ Preparation ]
1. Set the Collimator to front of lens.
2. Not use light box.
3. Adjust position of Lens unit and Infinity lens
   so that center of chart is located at center of TV-
   monitor.
4. Reset with [ CAM_RESET ] switch  on measurement board.

5. When the result is not good, try followings.

    a. Repeat this adjustment a few times.
       (Reset every time.)
    b. When Lens unit is replaced, perform Lens data
       and then this adjustment. (Reset every time.)

        [Esc] = Stop    [Enter] = Continue
```

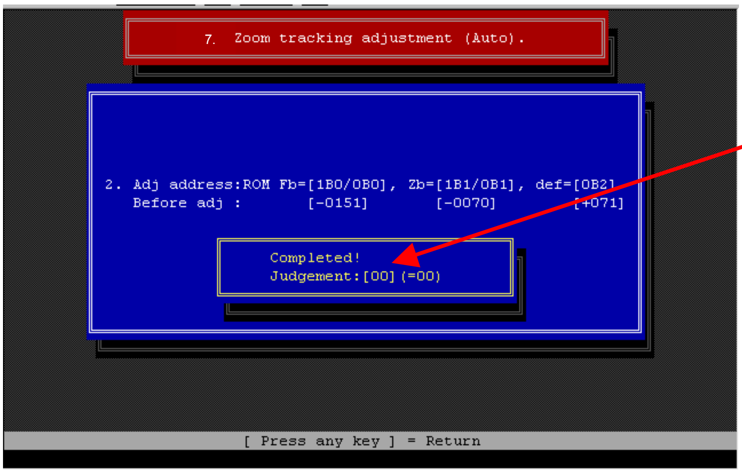
PRESS ENTER KEY.

⇩



```
7. Zoom tracking adjustment (Auto).

[ Focus adjustment(AUTO) ]
1. Setting:      a. Unnecessary
                 b. Unnecessary
                 c. Unnecessary
                 d. Unnecessary

        Self-adjustment begins. Press [Enter].

[ Preparation ]
  Adjust iris size so that it becomes prescribed size.

[→↑/↓←](+Shift)= Close/Open.[ 5000 ]   [Enter] = Next.
```

PRESS ENTER KEY, then adjustment is started.



```
7. Zoom tracking adjustment (Auto).

2. Adj address:ROM Fb=[1B0/0B0], Zb=[1B1/0B1], def=[0B2]
   Before adj :        [-0151]        [-0070]       [+071]

        Completed!
        Judgement:[00](=00)

[ Press any key ] = Return
```

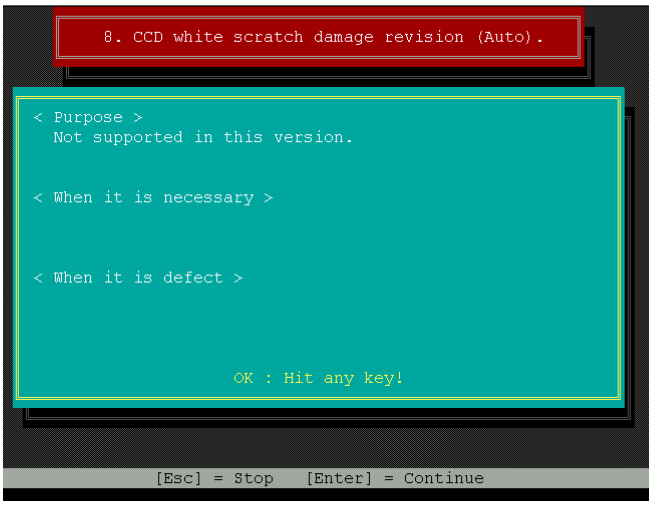
When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.

6. Connect the VIDEO OUT to Monitor TV.
7. Set the AUTO/MANUAL SELECT switch to MANUAL position.
8. Adjust Focus Ring to set focus of the focus chart in the MF mode, at the maximum of TELE side.
9. Press the Zoom button to change zoom position to maximum WIDE from maximum TELE side and to maximum TELE side from maximum WIDE side, then confirm that the focus chart appears clear.

6-7. CCD white scratch damage revision Adjustment (AUTO)

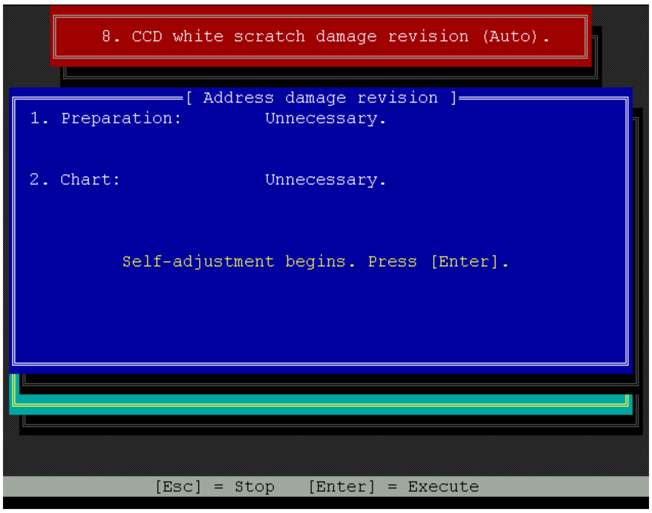
This adjustment is automatically executed.

1. Open the **“Camera adjustment menu”**.
2. Select **“8.CCD white scratch damage revision adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



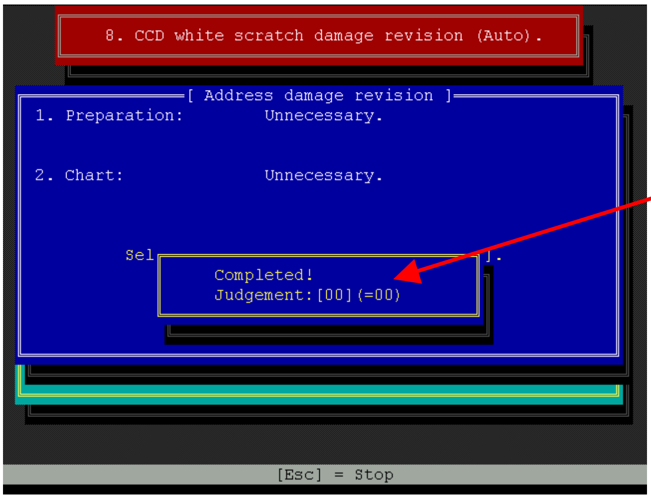
```
8. CCD white scratch damage revision (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >

< When it is defect >

          OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
8. CCD white scratch damage revision (Auto).

[ Address damage revision ]
1. Preparation:        Unnecessary.

2. Chart:              Unnecessary.

      Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



```
8. CCD white scratch damage revision (Auto).

[ Address damage revision ]
1. Preparation:        Unnecessary.

2. Chart:              Unnecessary.

      Sel                               ].
          Completed!
          Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

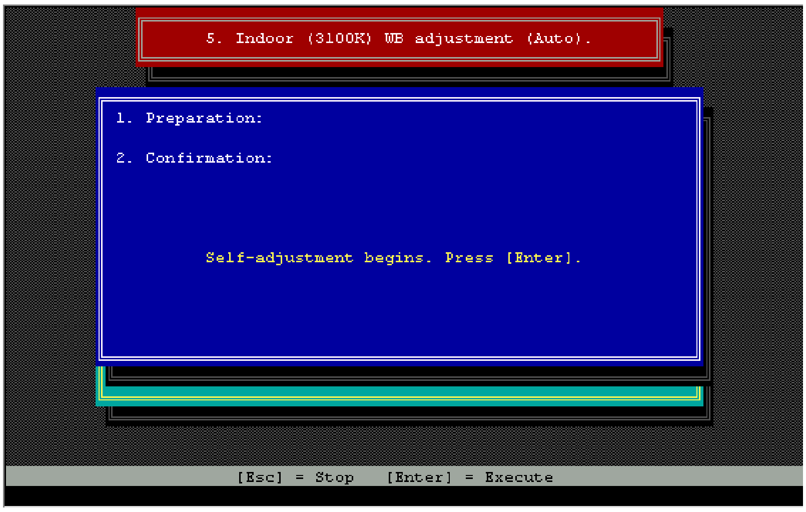
6-8. White Balance Adjustment (AUTO)

This adjustment is automatically executed.

Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.

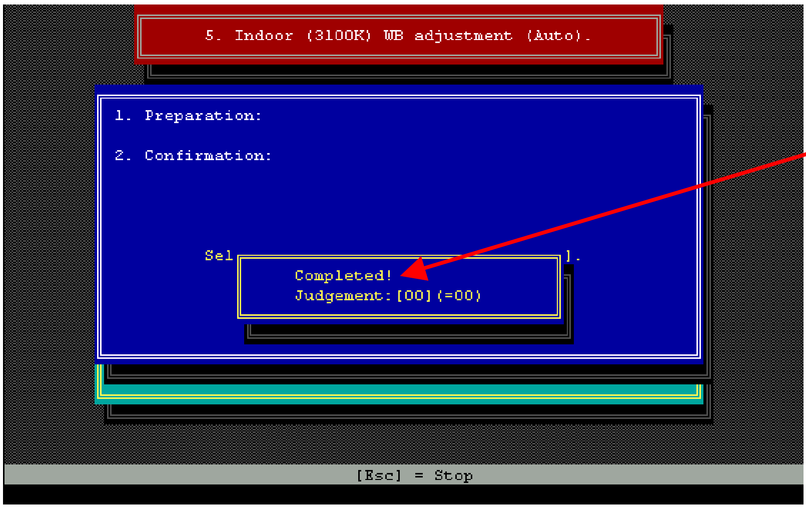
6-8-1. Indoor (3100K) White Balance Adjustment (AUTO)

1. Set the AUTO/MANUAL SELECT SW to MANUAL position.
2. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
3. Execute the ABB by press WHITE BAL button.
4. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
5. Open the **“Camera adjustment menu”**.
6. Select **“9. White Balance adjustment”** in the Camera adjustment menu, and then press the **“Enter”** key.
7. Select **“5. Indoor (3100K) WB adjustment (Auto)”** in the White balance adjustment menu, and then press the **“Enter”** key.



```
5. Indoor (3100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.

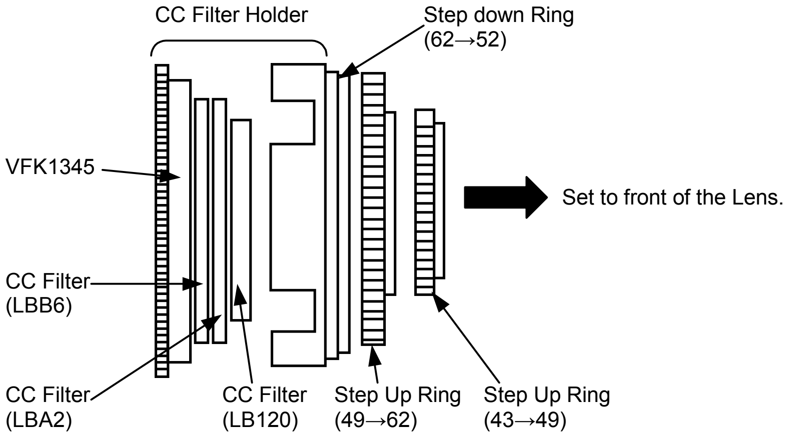


```
5. Indoor (3100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel                                 ].
      Completed!
      Judgement:[00](=00)

[Esc] = Stop
```

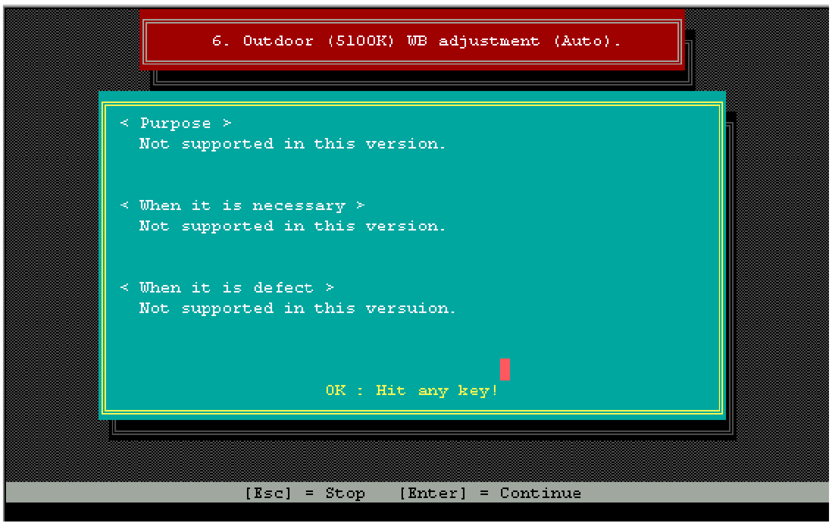
When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.

6-8-2. Outdoor (5100K) White Balance Adjustment (Auto)

1. Set the Color Conversion filters (LB120 : VFK1347), (LBA2 : VFK1884) and (LBB6 : VFK1888) to CC Filter Holder (VFK1345).
2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.

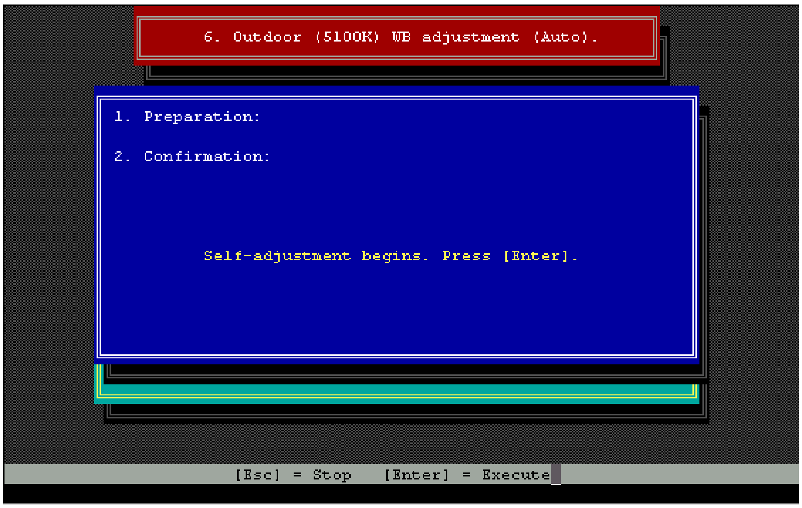

CC Filter Holder
Step down Ring
(62→52)
VFK1345
Set to front of the Lens.
CC Filter
(LBB6)
CC Filter
(LBA2)
CC Filter
(LB120)
Step Up Ring
(49→62)
Step Up Ring
(43→49)

4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"6. Outdoor (5100K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



```
6. Outdoor (5100K) WB adjustment (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >
  Not supported in this version.

< When it is defect >
  Not supported in this versuion.

                    OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

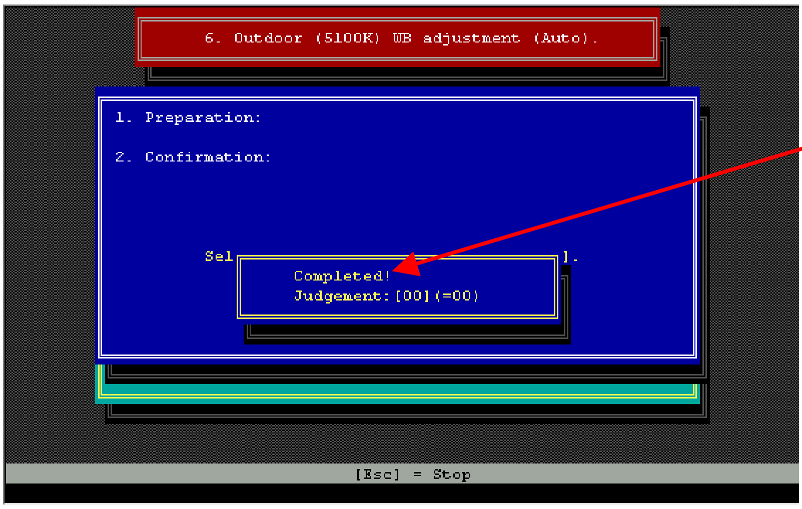
PRESS ENTER KEY.



```
6. Outdoor (5100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.

⇩



```
6. Outdoor (5100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel                                   ].
        Completed!
        Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.

6-8-3. Cool white (4500K) White Balance Adjustment (Auto)

< In case of NTSC model >

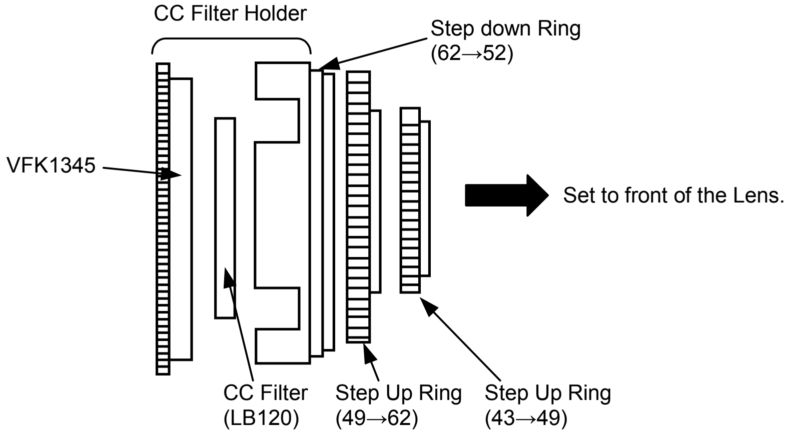
1. Set the Color Conversion filters (LB120 : VFK1347) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (LB80 : VFK1342) and (CC C20 : VFK1887) to CC Filter Holder (VFK1345).

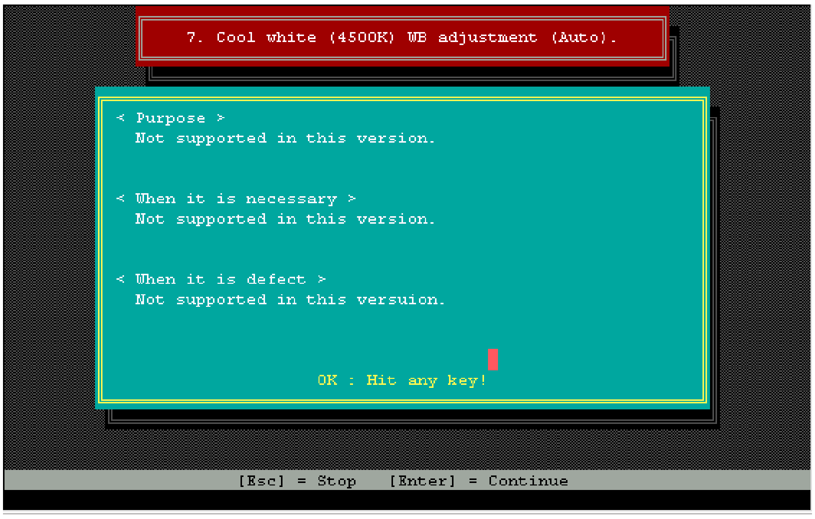
< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.



NOTE: Above figure described in case of NTSC.

4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"7. Cool white (4500K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



7. Cool white (4500K) WB adjustment (Auto).

< Purpose >
Not supported in this version.

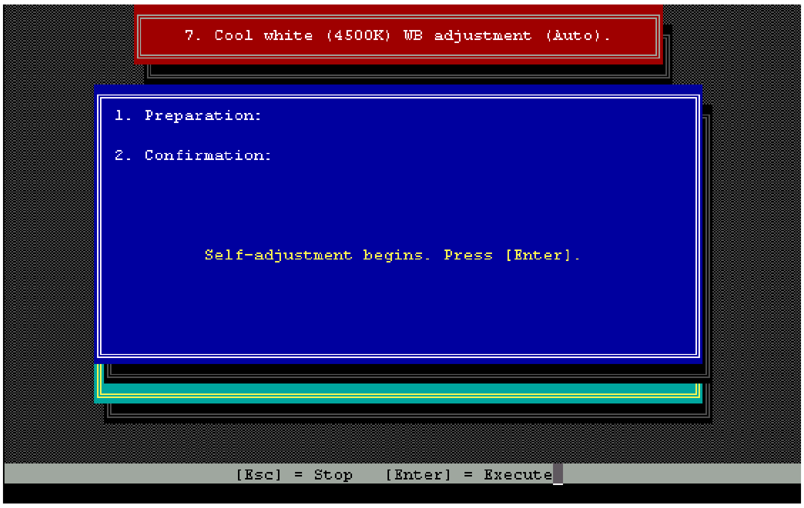
< When it is necessary >
Not supported in this version.

< When it is defect >
Not supported in this versuion.

OK : Hit any key!

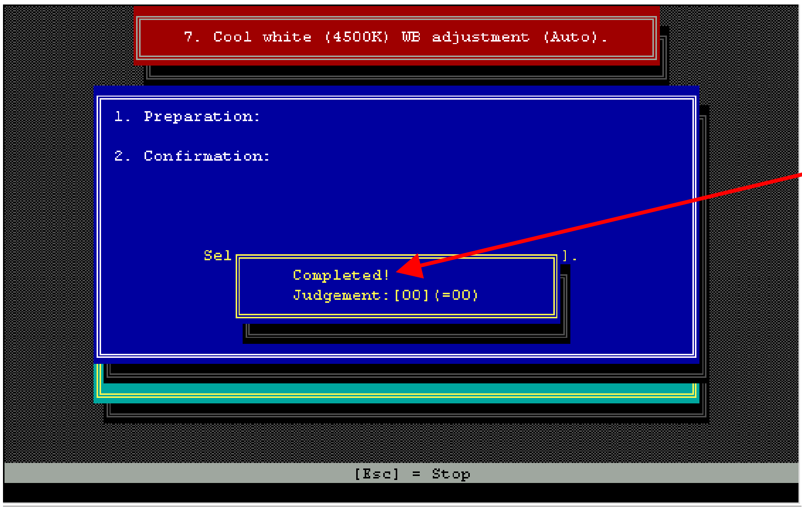
[Esc] = Stop [Enter] = Continue

PRESS ENTER KEY.



```
7. Cool white (4500K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



```
7. Cool white (4500K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel                                 ].
      Completed!
      Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”.**

6-8-4. Warm white (3600K) White Balance Adjustment (Auto)

< In case of NTSC model >

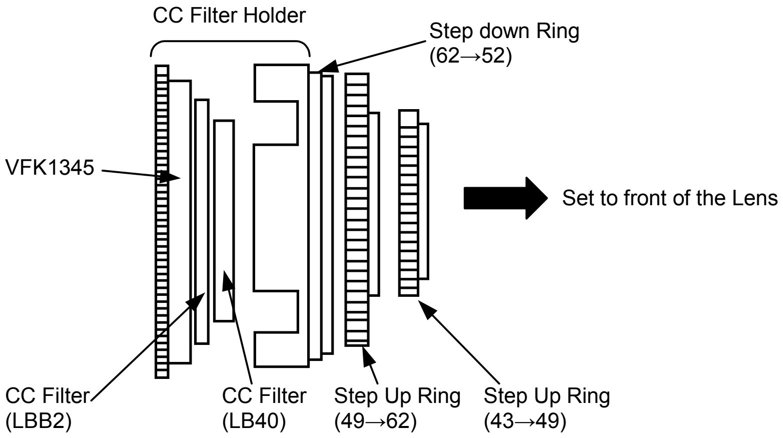
1. Set the Color Conversion filters (LB40 : VFK1341) and (LBB2 : VFK1885) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (CC C10 : VFK1886) to CC Filter Holder (VFK1345).

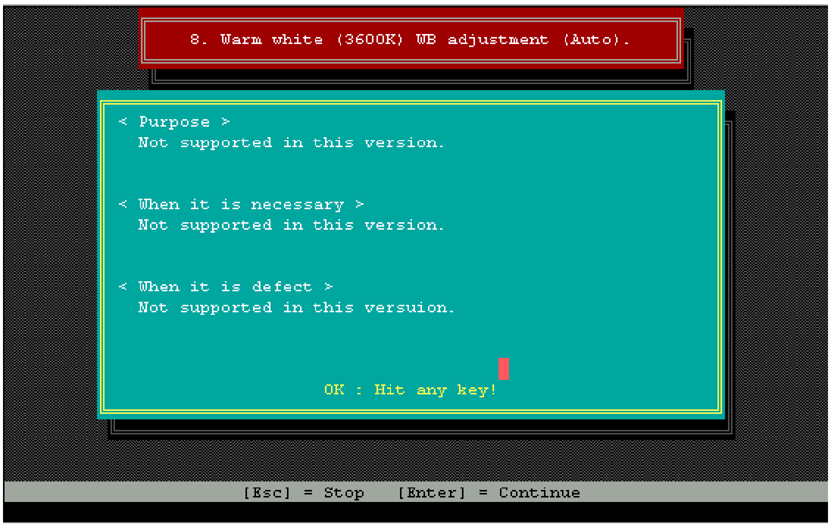
< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.



NOTE: Above figure described in case of NTSC.

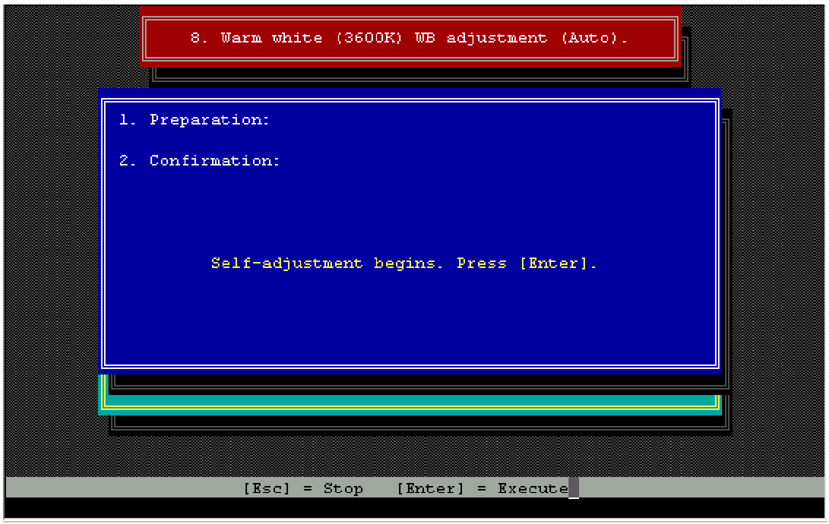
4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"8. Wram white (3600K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



```
8. Warm white (3600K) WB adjustment (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >
  Not supported in this version.

< When it is defect >
  Not supported in this versuion.

                    OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.

⇩


8. Warm white (3600K) WB adjustment (Auto).

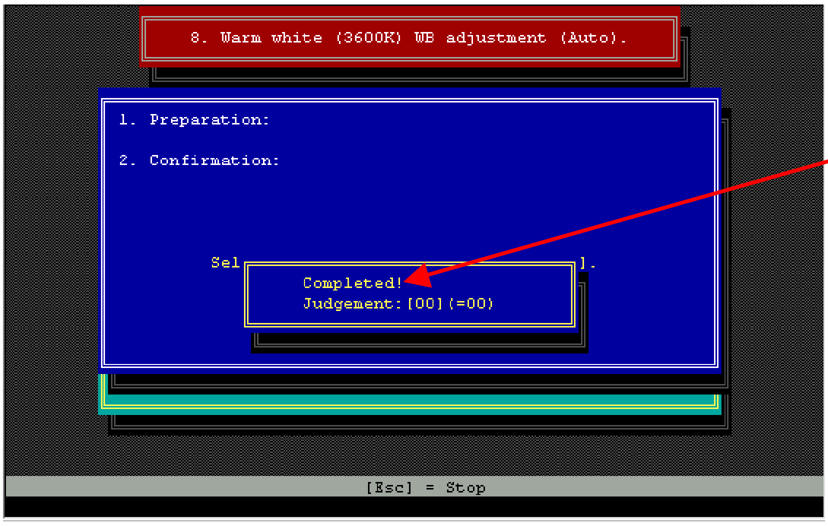
1. Preparation:

2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop [Enter] = Execute

PRESS ENTER KEY, then adjustment is started.


8. Warm white (3600K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel].

Completed!
Judgement:[00](=00)

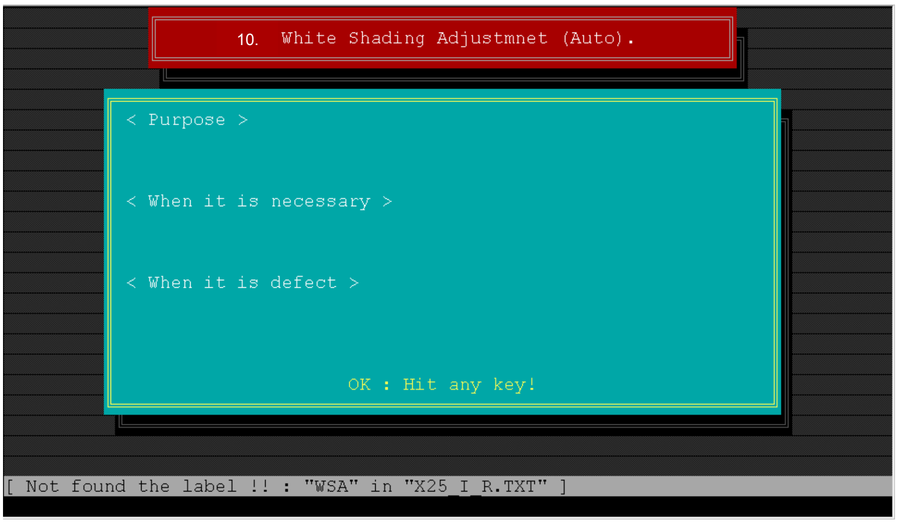
[Esc] = Stop

When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

6-9. White Shading Adjustment

This adjustment is automatically executed.

1. Aim the camera recorder at white paper (use clear white paper) under the Halogen lamp condition.
2. Shoot the white paper to fully fill entire screen.
3. Set the AUTO/MANUAL SELECT switch to MANUAL position.
4. Press WHITE BAL button until mark ”◩ “ displayed as flash condition to execute white balance adjustment.
5. Keep pressing WHITE BAL button “◩ “ display switching over to the light from the flash.
6. Press ZEBRA button to display the marker on the screen (When press the ZEBRA button, a zebra pattern is displayed and when pushing the ZEBRA button once again, it displays a marker at the center of the screen).
7. Press MULTI-DIAL to display the F-number.
8. Adjust the MULTI-DIAL to the luminance level to become 70 to 80% (luminance level can be confirm by numerical value, which displayed lower left corner of screen).
9. Open the **“Camera adjustment menu”** in EVR software.
10. Select **“10. White Shading Adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
11. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



10. White Shading Adjustmnet (Auto).

< Purpose >

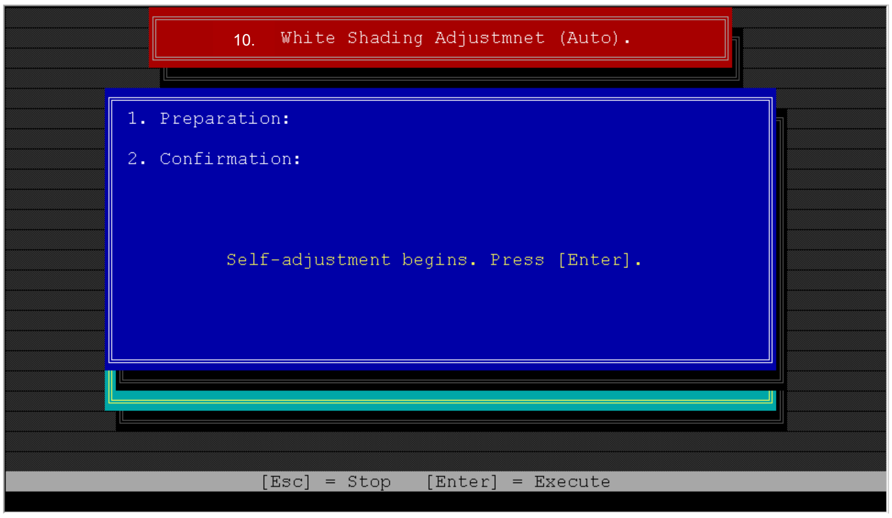
< When it is necessary >

< When it is defect >

OK : Hit any key!

[Not found the label !! : "WSA" in "X25_I_R.TXT"]

PRESS ENTER KEY.



10. White Shading Adjustmnet (Auto).

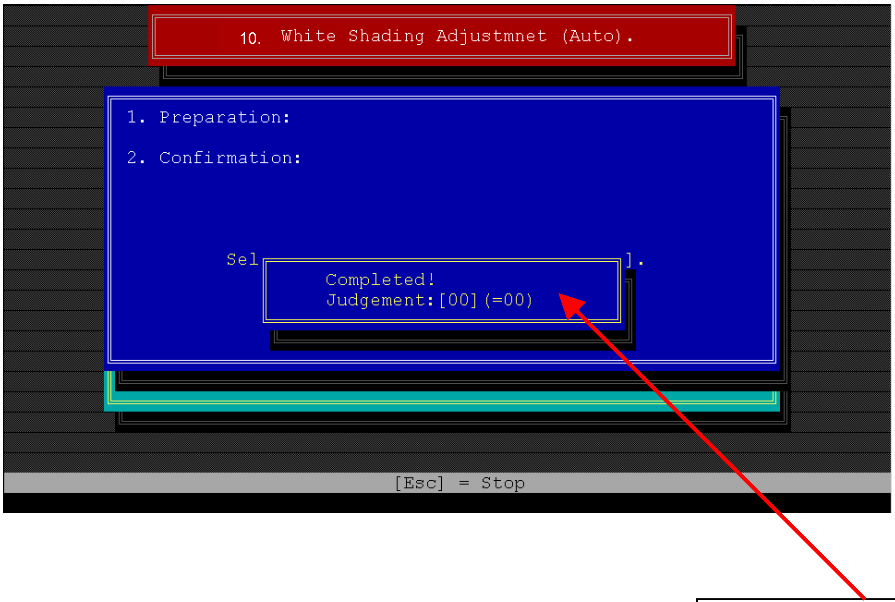
1. Preparation:

2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop [Enter] = Execute

PRESS ENTER KEY,
then adjustment is started.



```
10.  White Shading Adjustmnet (Auto).

1. Preparation:

2. Confirmation:

Sel                                    ].
        Completed!
        Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

7. VTR ADJUSTMENT PROCEDURE

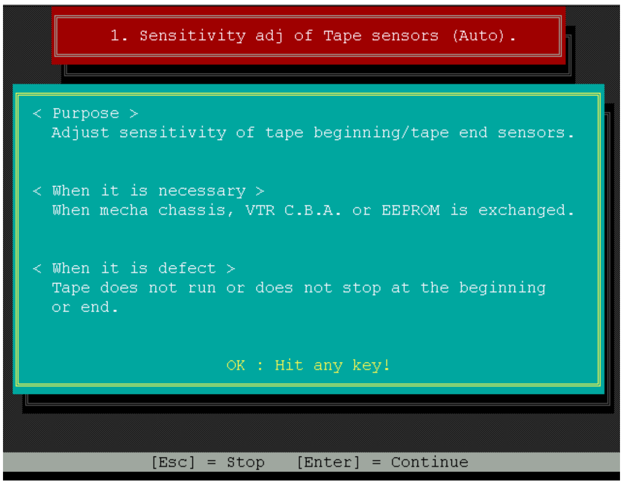
Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.

Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

7-1. Sensitivity adj of Tape sensors Adjustment (AUTO)

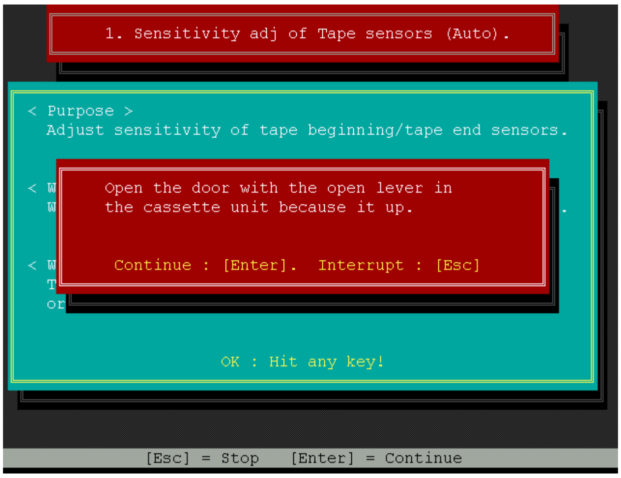
This adjustment is automatically executed.

1. Open the REC Inhibit Tab (SAVE side) of Tape End/Beg. Sensor Cassette (VFK1217).
2. Insert the Tape End/Beg. Sensor Cassette (VFK1217) into the camera recorder.
3. Open the **“Video adjustment menu”**.
4. Select **“1. Sensitivity adj of Tape sensors (Auto)”** in the Video adjustment menu, and then press the **“Enter”** key.



```
1. Sensitivity adj of Tape sensors (Auto).

< Purpose >
  Adjust sensitivity of tape beginning/tape end sensors.

< When it is necessary >
  When mecha chassis, VTR C.B.A. or EEPROM is exchanged.

< When it is defect >
  Tape does not run or does not stop at the beginning
  or end.

                  OK : Hit any key!

      [Esc] = Stop    [Enter] = Continue
```

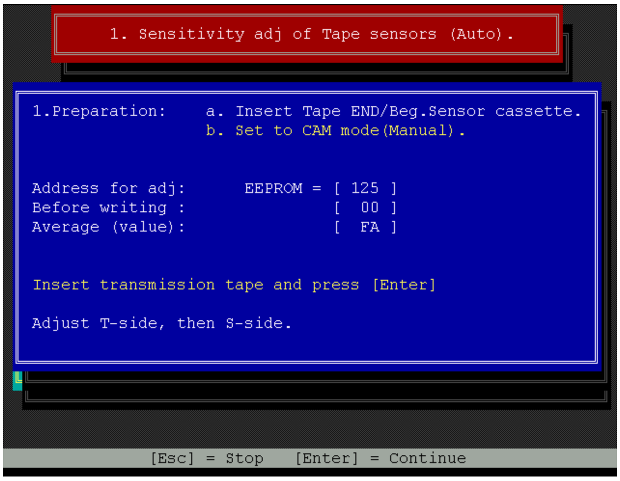
PRESS ENTER KEY.



```
1. Sensitivity adj of Tape sensors (Auto).

< Purpose >
  Adjust sensitivity of tape beginning/tape end sensors.

< W   Open the door with the open lever in
  W   the cassette unit because it up.                    .

< W    Continue : [Enter].  Interrupt : [Esc]
  T
  or

                  OK : Hit any key!

      [Esc] = Stop    [Enter] = Continue
```

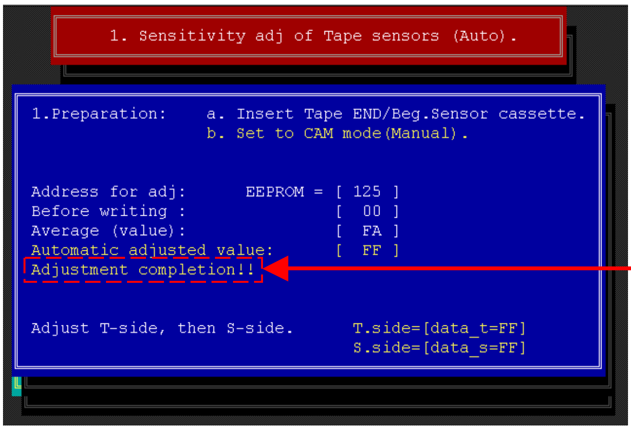
Unnecessary open the door, PRESS ENTER KEY.

5. Set to CAMERA mode in camera recorder following the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
1. Sensitivity adj of Tape sensors (Auto).

1.Preparation:    a. Insert Tape END/Beg.Sensor cassette.
                  b. Set to CAM mode(Manual).

Address for adj:      EEPROM = [ 125 ]
Before writing :               [  00 ]
Average (value):               [  FA ]

Insert transmission tape and press [Enter]

Adjust T-side, then S-side.

      [Esc] = Stop    [Enter] = Continue
```

In case of the **“Tape END / Beg. Sensor cassette (VFK1217)”** is already inserted, PRESS ENTER KEY.



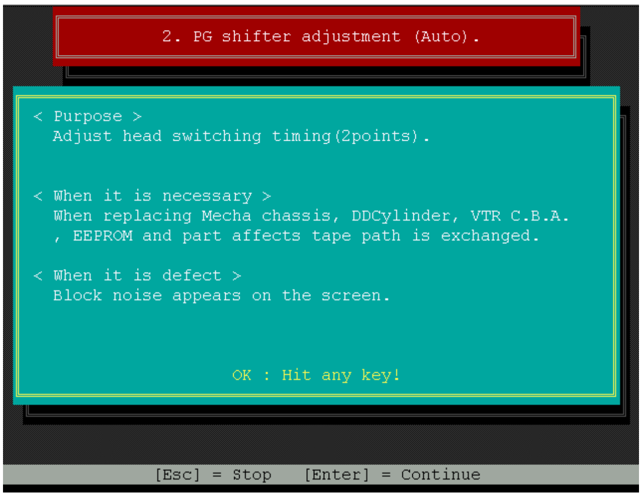
```
1. Sensitivity adj of Tape sensors (Auto).

1.Preparation:     a. Insert Tape END/Beg.Sensor cassette.
                   b. Set to CAM mode(Manual).

Address for adj:      EEPROM = [ 125 ]
Before writing :               [  00 ]
Average (value):               [  FA ]
Automatic adjusted value:      [  FF ]
Adjustment completion!!

Adjust T-side, then S-side.       T.side=[data_t=FF]
                                  S.side=[data_s=FF]
```

Please confirm this message appears on screen, then adjustment is finished.

7-2. PG shifter Adjustment (AUTO)

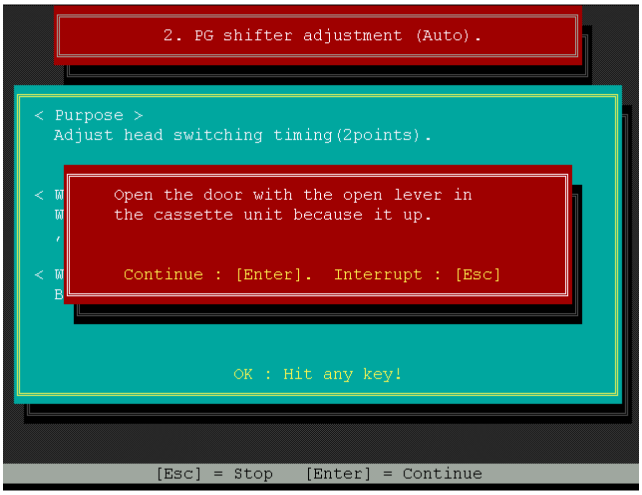
This adjustment is automatically executed.

1. Connect the oscilloscope to **"HID"** and **"SPA"** on the VFK1308P.
2. Insert the DV color bar alignment tape (VFM3010EDS: NTSC or VFM3110EDS: PAL) into the camera recorder.
3. Open the **"Video adjustment menu"**.
4. Select **"2. PG shifter adjustment (Auto)"** in the Video adjustment menu, and then press the **"Enter"** key.
5. Set to VCR mode in camera recorder follow the message **"Manually set to VCR mode."**, and then press the **"Enter"** key.



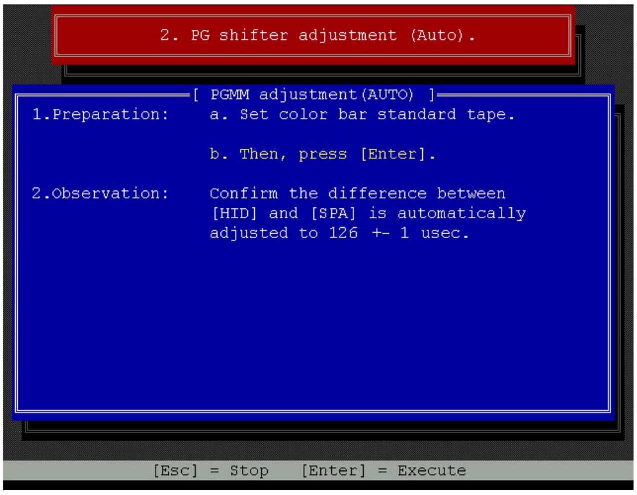
```
2. PG shifter adjustment (Auto).

< Purpose >
  Adjust head switching timing(2points).

< When it is necessary >
  When replacing Mecha chassis, DDCylinder, VTR C.B.A.
  , EEPROM and part affects tape path is exchanged.

< When it is defect >
  Block noise appears on the screen.

              OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
2. PG shifter adjustment (Auto).

< Purpose >
  Adjust head switching timing(2points).

< W    Open the door with the open lever in
  W    the cassette unit because it up.
  ,
< W     Continue : [Enter].  Interrupt : [Esc]
  B

              OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

It is unnecessary to open the door, PRESS ENTER KEY.



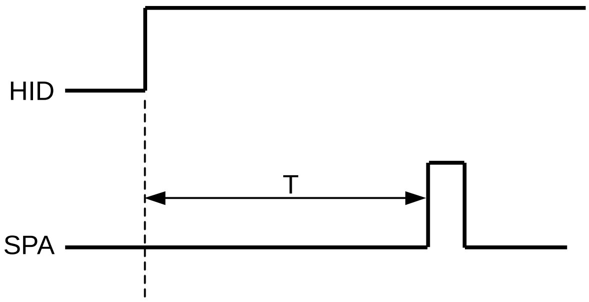
```
2. PG shifter adjustment (Auto).

[ PGMM adjustment(AUTO) ]
1.Preparation:     a. Set color bar standard tape.

                   b. Then, press [Enter].

2.Observation:     Confirm the difference between
                   [HID] and [SPA] is automatically
                   adjusted to 126 +- 1 usec.

[Esc] = Stop    [Enter] = Execute
```

In case the DV color bar alignment tape is already inserted, PRESS ENTER KEY, then adjustment is started.

NOTE:

When the screen change to the following screen, camera recorder goes to STBY ON from STBY OFF mode. Press ENTER key after the camera recorder change to STBY ON mode completely.

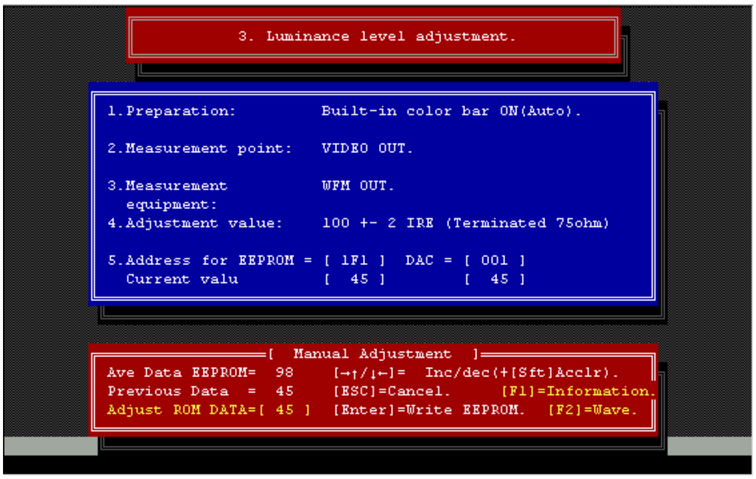
After finishing adjustment, please confirm that the portion **“T”** is within the specification as shown in figure with an oscilloscope.



T = 126 ± 1 µsec

7-3. Luminance level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm termination.
2. Open the **“Video adjustment menu”**.
3. Select **“3. Luminance level adjustment”** in the Video adjustment menu, and then press the **“Enter”** key.
4. Set to CAMERA mode in camera recorder following the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
3. Luminance level adjustment.

1.Preparation:          Built-in color bar ON(Auto).

2.Measurement point:    VIDEO OUT.

3.Measurement           WFM OUT.
  equipment:
4.Adjustment value:     100 +- 2 IRE (Terminated 75ohm)

5.Address for EEPROM = [ 1F1 ]  DAC = [ 001 ]
  Current valu         [  45 ]        [  45 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  98    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data   =  45    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 45 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

NOTE:
This figure describes the NTSC model.

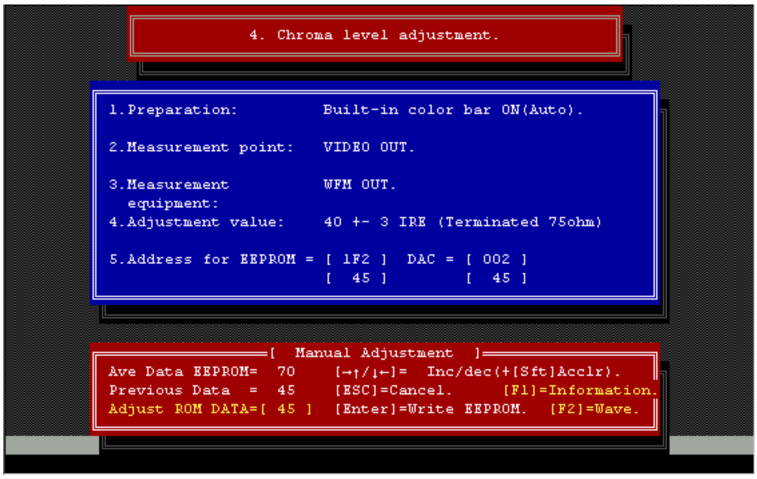
5. Adjust the arrow keys on PC so that the Y level becomes (100±2 IRE: NTSC model / 700±10 mVp-p: PAL model).

Note: 1) Y level can be adjusted by pressing arrow keys on keyboard.
2) The waveform(figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to white the adjusted data write to EEPROM.

7-4. Chroma level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm termination.
2. Open the **“Video adjustment menu”**.
3. Select **“4. Chroma level adjustment”** in the Video adjustment menu, and then press the **“Enter”** key.
4. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
4. Chroma level adjustment.

1.Preparation:          Built-in color bar ON(Auto).

2.Measurement point:    VIDEO OUT.

3.Measurement           WFM OUT.
  equipment:
4.Adjustment value:     40 +- 3 IRE (Terminated 75ohm)

5.Address for EEPROM = [ 1F2 ]  DAC = [ 002 ]
                       [  45 ]        [  45 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  70    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data   =  45    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 45 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

NOTE:
This figure describes the NTSC model.

5. Adjust the arrow keys on PC so that the C level becomes (40±3: NTSC model / 300±20 mVp-p: PAL model).

Note: 1) C level can be adjusted by pressing arrow keys on keyboard.
2) The waveform(figure) can be displayed by pressing F2 key.

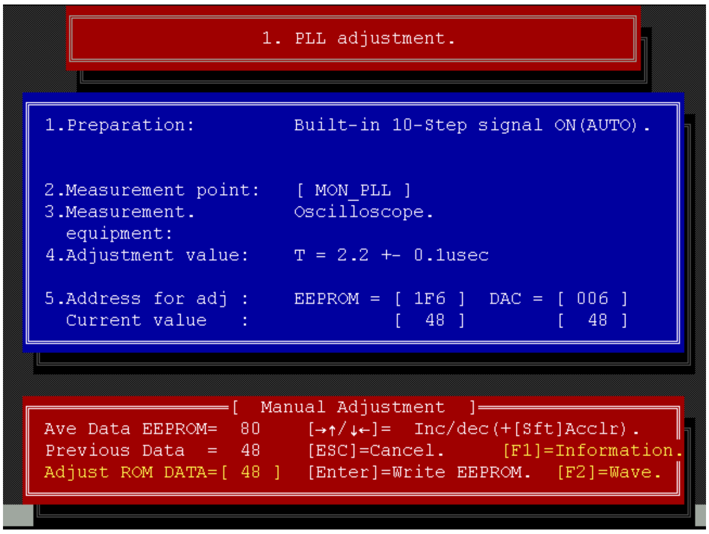
6. When adjustment is finished, press ENTER key to white the adjusted data to EEPROM.

8. LCD ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.
Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

8-1. PLL Adjustment

1. Connect the oscilloscope to **"MON_PLL"** on the VFK1308P.
2. Open the **"LCD adjustment menu"**.
3. Select **"1. PLL adjustment"** in the LCD adjustment menu, and then press the **"Enter"** key.



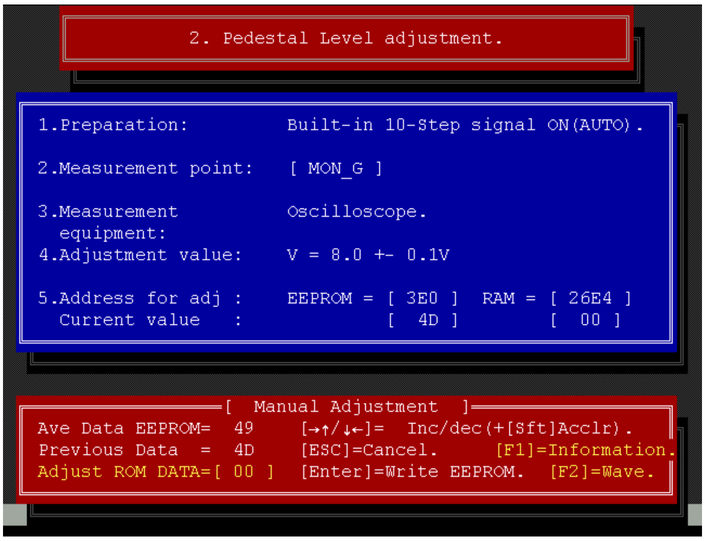
```
1. PLL adjustment.

1.Preparation:           Built-in 10-Step signal ON(AUTO).

2.Measurement point:     [ MON_PLL ]
3.Measurement.           Oscilloscope.
  equipment:
4.Adjustment value:      T = 2.2 +- 0.1usec

5.Address for adj :      EEPROM = [ 1F6 ]  DAC = [ 006 ]
  Current value   :               [  48 ]        [  48 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  48    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 48 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the width (T) becomes 2.2±0.1µsec as shown in figure on screen.

Note:
1) Width (T) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-2. Pedestal Level Adjustment

1. Connect the oscilloscope to **"MON_G"** on the VFK1308P.
2. Open the **"LCD adjustment menu"**.
3. Select **"2. Pedestal Level adjustment"** in the LCD adjustment menu, and then press the **"Enter"** key.



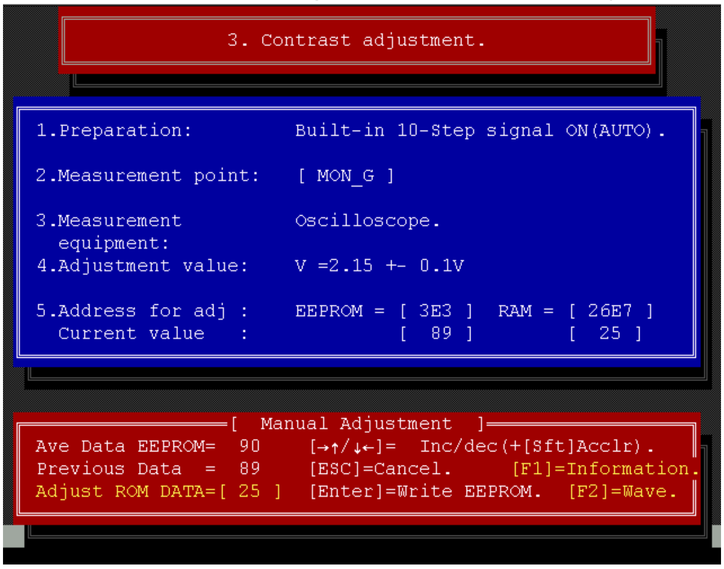
```
2. Pedestal Level adjustment.

1.Preparation:           Built-in 10-Step signal ON(AUTO).

2.Measurement point:     [ MON_G ]

3.Measurement            Oscilloscope.
  equipment:
4.Adjustment value:      V = 8.0 +- 0.1V

5.Address for adj :      EEPROM = [ 3E0 ]  RAM = [ 26E4 ]
  Current value   :               [  4D ]        [  00 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  49    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  4D    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the differential amplitude both 0 step-level (portion **"a"** in figure) to becomes 8.0±0.1V as shown in figure on screen.

Note:
1) Level (a) can be by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-3. Contrast Adjustment

1. Connect the oscilloscope to **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“3. Contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



```
3. Contrast adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:     V =2.15 +- 0.1V

5.Address for adj :     EEPROM = [ 3E3 ]  RAM = [ 26E7 ]
  Current value   :              [  89 ]        [  25 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  90    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  89    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 25 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the differential amplitude between 0 step-level and 7 step-level (portion **“V”** in figure) becomes 2.15±0.1V as shown in figure on screen.

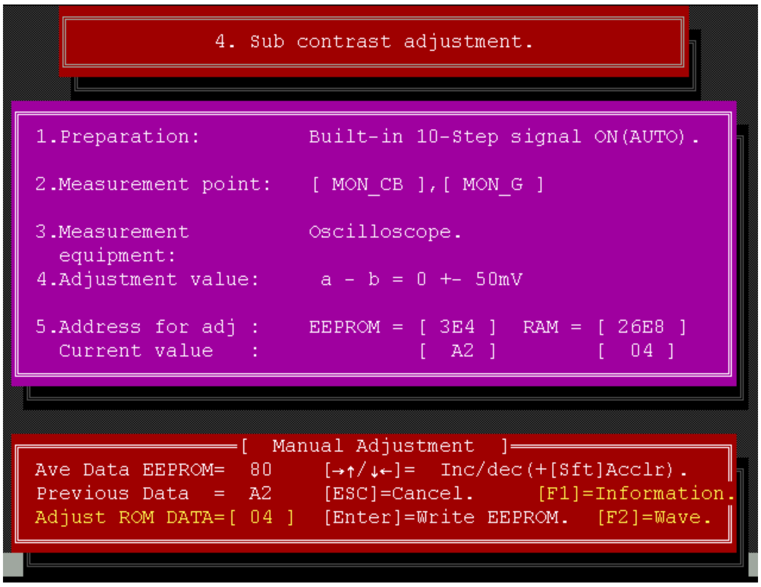
Note:

1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-4. Sub contrast Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“4. Sub contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



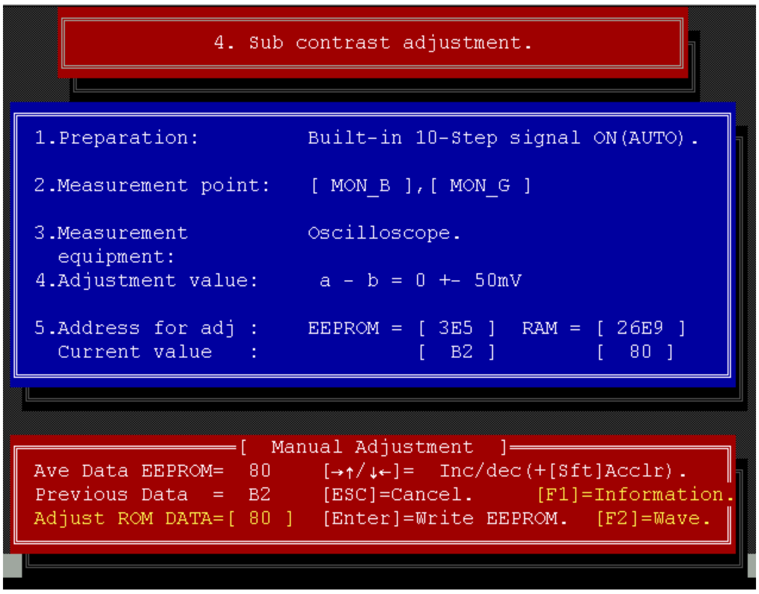
```
4. Sub contrast adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_CB ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 3E4 ]  RAM = [ 26E8 ]
  Current value   :              [  A2 ]        [  04 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  A2    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 04 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_CB) and **“b”** (MON_G) becomes 0±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



```
4. Sub contrast adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_B ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 3E5 ]  RAM = [ 26E9 ]
  Current value   :              [  B2 ]        [  80 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  B2    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 80 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_B) and **“b”** (MON_G) to become 0±50mV as shown in figure on screen.

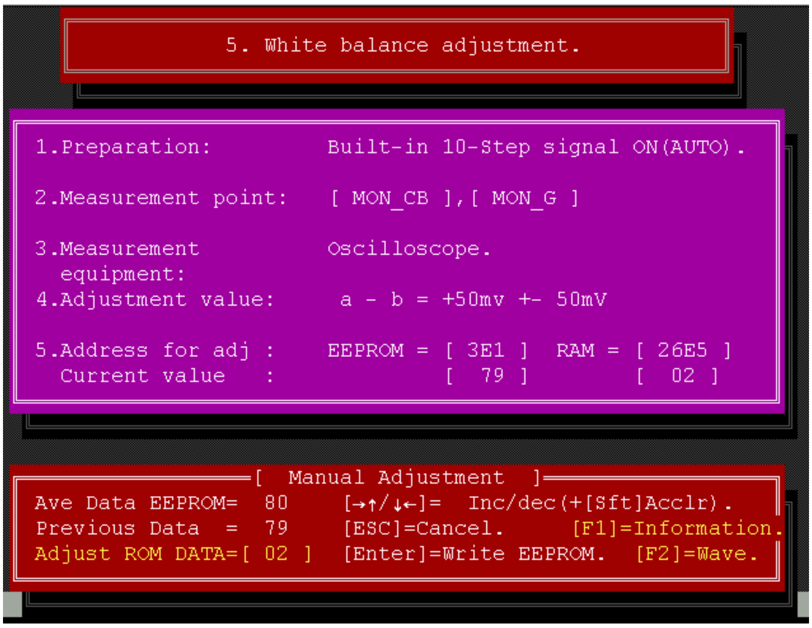
Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

8. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-5. White balance Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“5. White balance adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



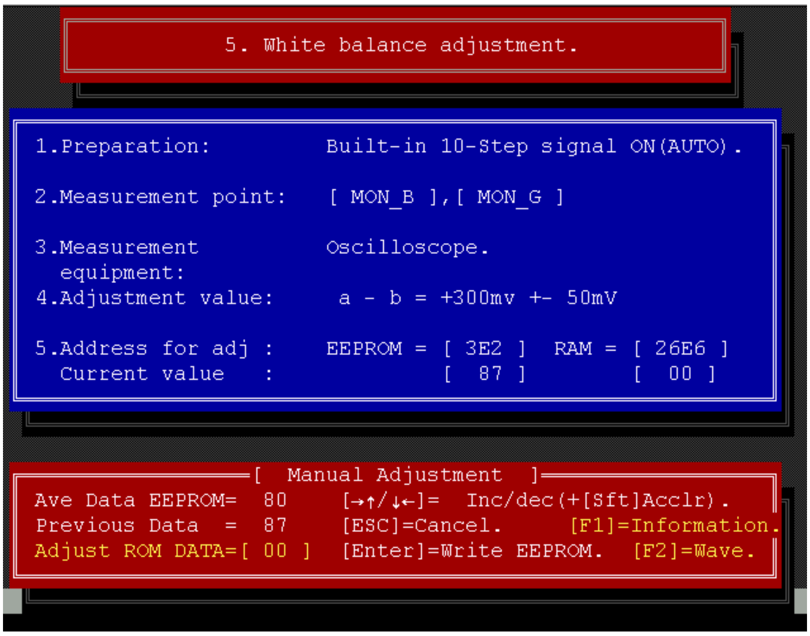
```
                 5. White balance adjustment.

 1.Preparation:          Built-in 10-Step signal ON(AUTO).

 2.Measurement point:    [ MON_CB ],[ MON_G ]

 3.Measurement           Oscilloscope.
   equipment:
 4.Adjustment value:      a - b = +50mv +- 50mV

 5.Address for adj :     EEPROM = [ 3E1 ]  RAM = [ 26E5 ]
   Current value   :              [  79 ]        [  02 ]

                   [  Manual Adjustment  ]
 Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
 Previous Data  =  79    [ESC]=Cancel.      [F1]=Information.
 Adjust ROM DATA=[ 02 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_CB) and **“b”** (MON_G) becomes +50mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



```
                 5. White balance adjustment.

 1.Preparation:          Built-in 10-Step signal ON(AUTO).

 2.Measurement point:    [ MON_B ],[ MON_G ]

 3.Measurement           Oscilloscope.
   equipment:
 4.Adjustment value:      a - b = +300mv +- 50mV

 5.Address for adj :     EEPROM = [ 3E2 ]  RAM = [ 26E6 ]
   Current value   :              [  87 ]        [  00 ]

                   [  Manual Adjustment  ]
 Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
 Previous Data  =  87    [ESC]=Cancel.      [F1]=Information.
 Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_B) and **“b”** (MON_G) becomes +300mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

8. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

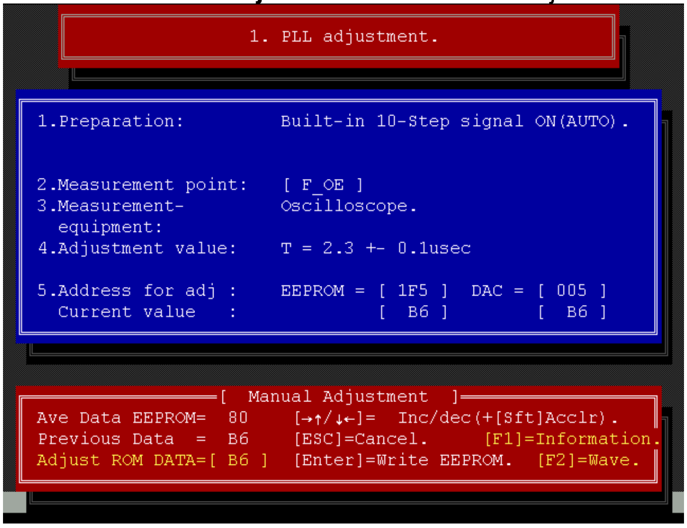
9. EVF ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

9-1. EVF PLL Adjustment

1. Connect the oscilloscope to **“F_OE”** on the VFK1308P.
2. Open the **“EVF adjustment menu”**.
3. Select **“1. PLL adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



```
1. PLL adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ F_OE ]
3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     T = 2.3 +- 0.1usec

5.Address for adj :     EEPROM = [ 1F5 ]  DAC = [ 005 ]
  Current value   :              [  B6 ]        [  B6 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  B6    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ B6 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the width (T) becomes 2.3±0.1µsec as shown in figure on screen.

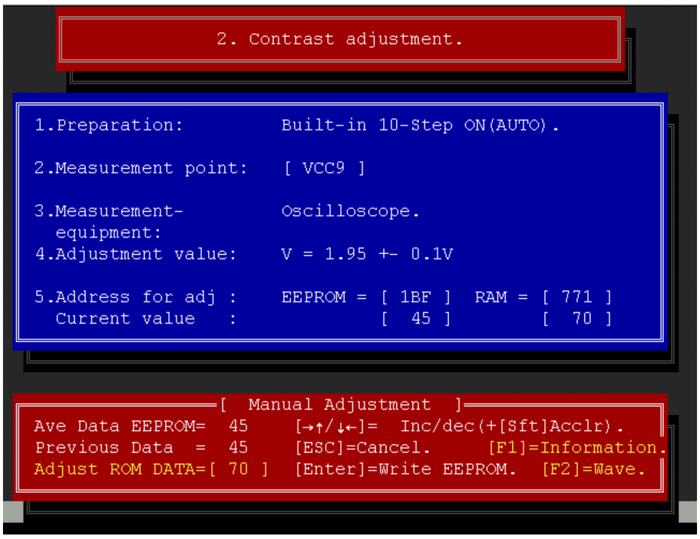
Note:

1) Width (T) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

5. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-2. EVF Contrast Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“2. Contrast adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



```
2. Contrast adjustment.

1.Preparation:          Built-in 10-Step ON(AUTO).

2.Measurement point:    [ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     V = 1.95 +- 0.1V

5.Address for adj :     EEPROM = [ 1BF ]  RAM = [ 771 ]
  Current value   :              [  45 ]        [  70 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  45    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  45    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 70 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

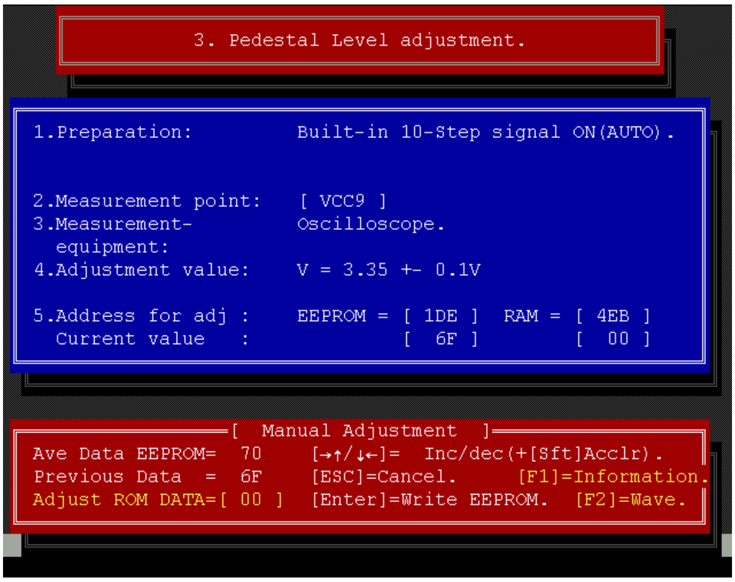
5. Adjust the arrow keys on PC so that the differential amplitude between 1 step-level and 10 step-level (portion **“V”** in figure) becomes 1.95±0.1V as shown in figure on screen.

Note: 1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-3. EVF Pedestal Level Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“3. Pedestal Level adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



```
            3. Pedestal Level adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).


2.Measurement point:    [ VCC9 ]
3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     V = 3.35 +- 0.1V

5.Address for adj :     EEPROM = [ 1DE ]  RAM = [ 4EB ]
  Current value   :              [  6F ]        [  00 ]

                 [  Manual Adjustment  ]
Ave Data EEPROM=  70    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  6F    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

5. Adjust the arrow keys on PC so that the differential amplitude both 10 step-level (portion **“V”** in figure) becomes 3.35±0.1V as shown in figure on screen.

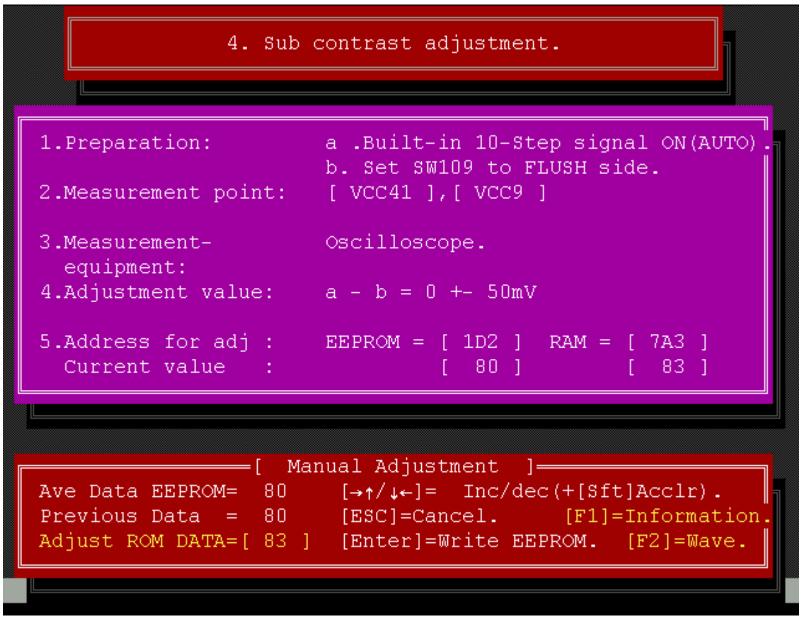
Note:

1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-4. EVF Sub contrast Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC41”** and **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“4. Sub contrast adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



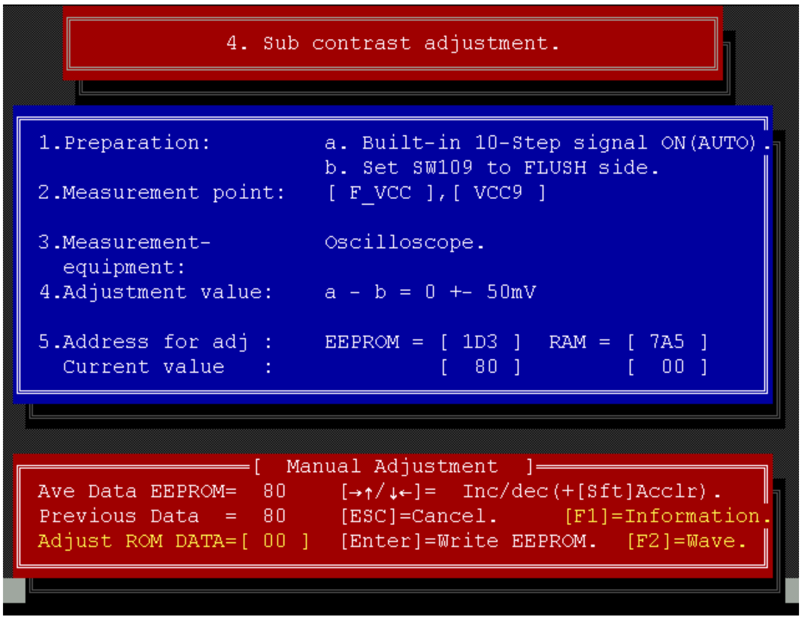
```
4. Sub contrast adjustment.

1.Preparation:           a .Built-in 10-Step signal ON(AUTO).
                         b. Set SW109 to FLUSH side.
2.Measurement point:     [ VCC41 ],[ VCC9 ]

3.Measurement-           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = 0 +- 50mV

5.Address for adj :      EEPROM = [ 1D2 ]  RAM = [ 7A3 ]
  Current value   :               [  80 ]        [  83 ]

                [  Manual Adjustment  ]
Ave Data EEPROM=  80     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  80     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 83 ]   [Enter]=Write EEPROM.  [F2]=Wave.
```

5. Adjust the arrow keys on PC so that the level difference between **“a”** (VCC41) and **“b”** (VCC9) becomes 0±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM, then change the display indicated as below.



```
4. Sub contrast adjustment.

1.Preparation:           a. Built-in 10-Step signal ON(AUTO).
                         b. Set SW109 to FLUSH side.
2.Measurement point:     [ F_VCC ],[ VCC9 ]

3.Measurement-           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = 0 +- 50mV

5.Address for adj :      EEPROM = [ 1D3 ]  RAM = [ 7A5 ]
  Current value   :               [  80 ]        [  00 ]

                [  Manual Adjustment  ]
Ave Data EEPROM=  80     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  80     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 00 ]   [Enter]=Write EEPROM.  [F2]=Wave.
```

7. Connect the oscilloscope to **“F_VCC”** and **“VCC9”** on the VFK1308P.
8. Adjust the arrow keys on PC so that the level difference between **“a”** (F_VCC) and **“b”** (VCC9) becomes 0±50mV as shown in figure on screen.

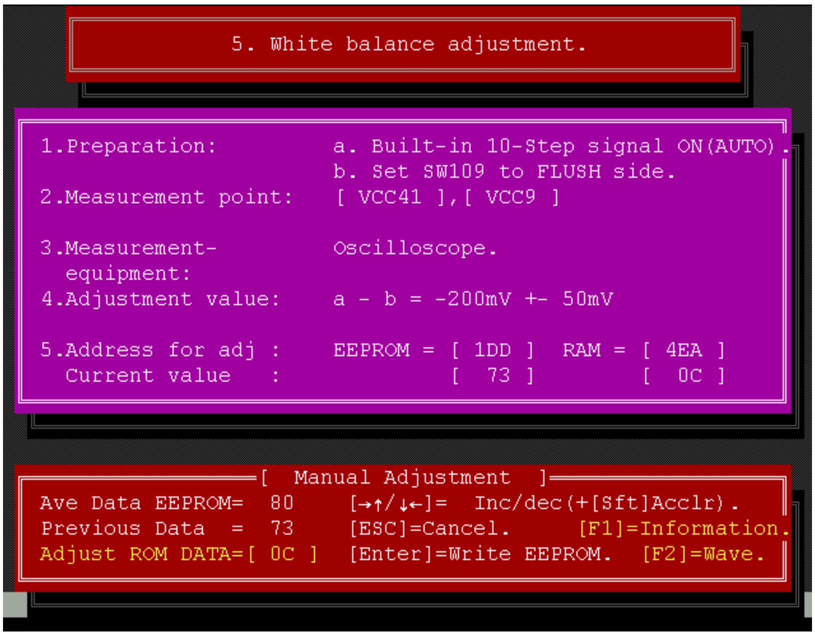
Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

9-5. EVF White balance Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC41”** and **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“5. White balance adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



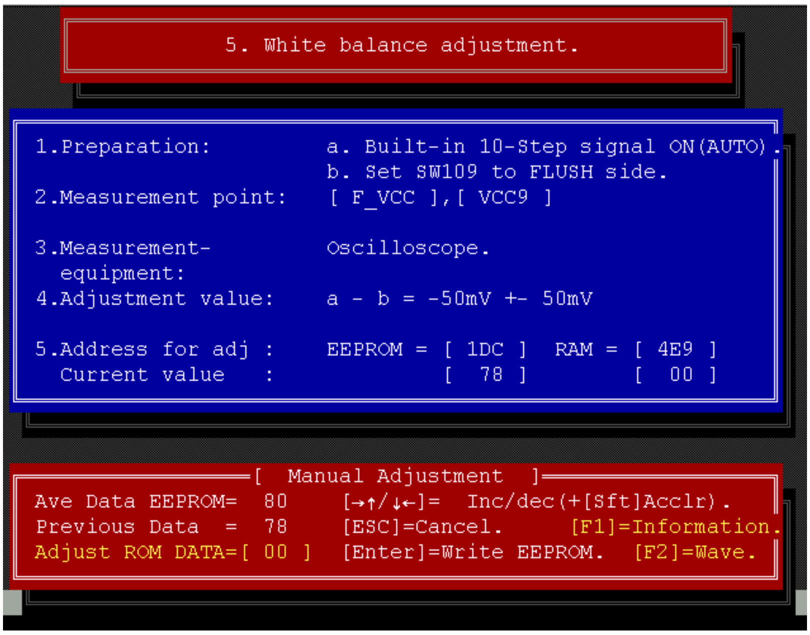
```
5. White balance adjustment.

1.Preparation:          a. Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ VCC41 ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = -200mV +- 50mV

5.Address for adj :     EEPROM = [ 1DD ]   RAM = [ 4EA ]
  Current value   :              [  73 ]         [  0C ]

[ Manual Adjustment ]
Ave Data EEPROM=  80     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  73     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 0C ]   [Enter]=Write EEPROM.   [F2]=Wave.
```

5. Adjust the arrow keys on PC so that the level difference between **“a”** (VCC41) and **“b”** (VCC9) becomes -200mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



```
5. White balance adjustment.

1.Preparation:          a. Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ F_VCC ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = -50mV +- 50mV

5.Address for adj :     EEPROM = [ 1DC ]   RAM = [ 4E9 ]
  Current value   :              [  78 ]         [  00 ]

[ Manual Adjustment ]
Ave Data EEPROM=  80     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  78     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 00 ]   [Enter]=Write EEPROM.   [F2]=Wave.
```

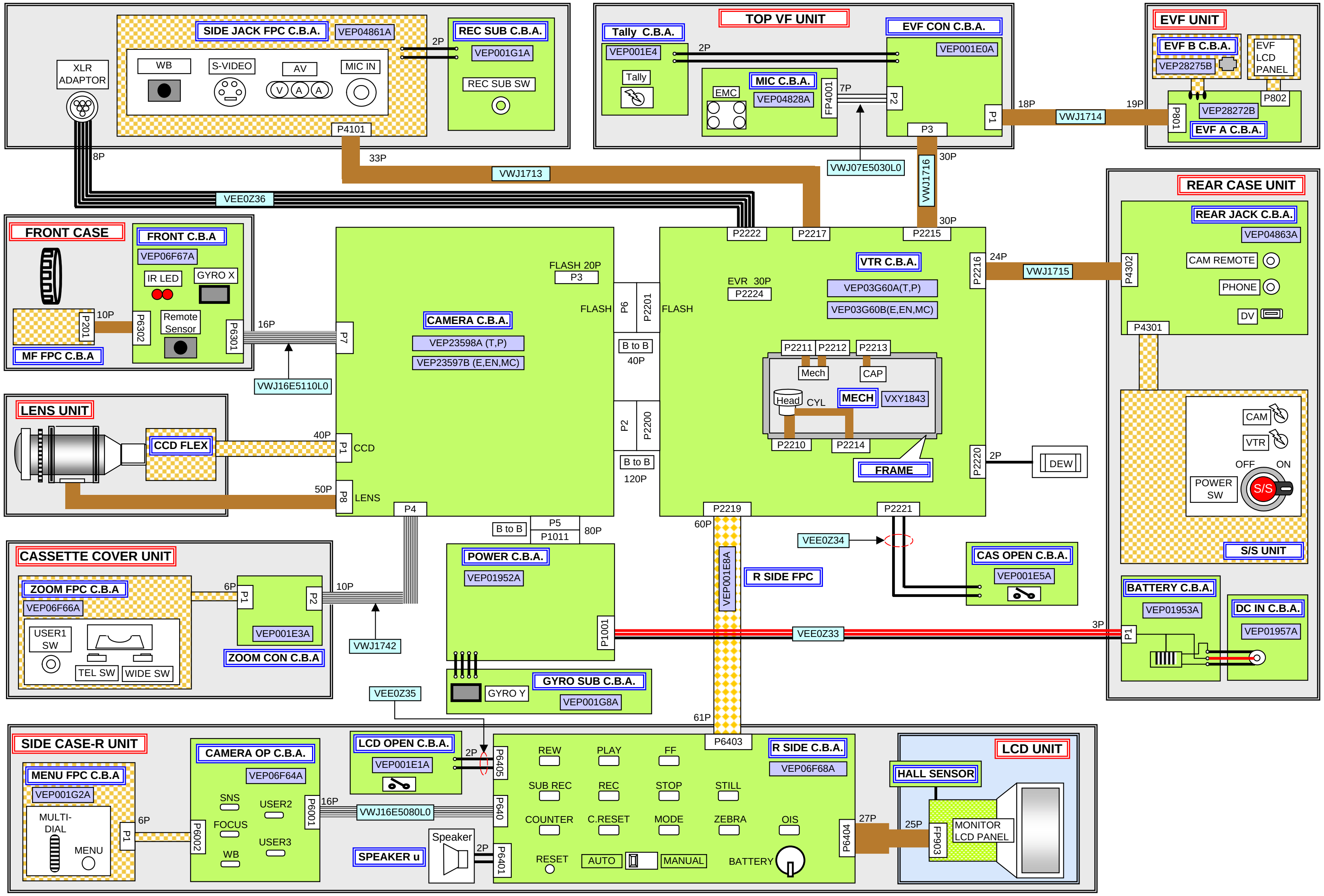
7. Connect the oscilloscope to **“F_VCC”** and **“VCC9”** on the VFK1308P.
8. Adjust the arrow keys on PC so that the level difference between **“a”** (F_VCC) and **“b”** (VCC9) to become –50mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

INTERCONNECTION


XLR ADAPTOR
SIDE JACK FPC C.B.A.
VEP04861A
WB
S-VIDEO
AV
V A A
MIC IN
P4101
2P
REC SUB C.B.A.
VEP001G1A
REC SUB SW
8P
33P
VWJ1713
VEE0Z36
Tally C.B.A.
VEP001E4
Tally
2P
TOP VF UNIT
EVF CON C.B.A.
VEP001E0A
EMC
MIC C.B.A.
VEP04828A
FP4001
7P
P2
P1
P3
VWJ07E5030L0
VWJ1716
30P
30P
18P
VWJ1714
19P
EVF UNIT
EVF B C.B.A.
VEP28275B
EVF LCD PANEL
P802
P801
VEP28272B
EVF A C.B.A.
FRONT CASE
FRONT C.B.A
VEP06F67A
IR LED
GYRO X
Remote Sensor
P201
10P
P6302
P6301
MF FPC C.B.A
16P
P7
VWJ16E5110L0
LENS UNIT
CCD FLEX
40P
P1
CCD
50P
P8
LENS
P4
CAMERA C.B.A.
VEP23598A (T,P)
VEP23597B (E,EN,MC)
FLASH 20P
P3
FLASH
P6
P2201
B to B
40P
P2
P2200
B to B
120P
P2222
P2217
P2215
VTR C.B.A.
VEP03G60A(T,P)
VEP03G60B(E,EN,MC)
EVR 30P
P2224
FLASH
P2216
24P
VWJ1715
P2211
P2212
P2213
Mech
CAP
Head
CYL
MECH
VXY1843
P2210
P2214
FRAME
P2220
2P
DEW
P2219
P2221
60P
REAR CASE UNIT
REAR JACK C.B.A.
VEP04863A
P4302
CAM REMOTE
PHONE
DV
P4301
CAM
VTR
OFF
ON
POWER SW
S/S
S/S UNIT
CASSETTE COVER UNIT
ZOOM FPC C.B.A
VEP06F66A
USER1 SW
TEL SW
WIDE SW
6P
P1
P2
VEP001E3A
ZOOM CON C.B.A
10P
VWJ1742
B to B
P5
P1011
80P
POWER C.B.A.
VEP01952A
P1001
VEE0Z35
GYRO Y
GYRO SUB C.B.A.
VEP001G8A
VEE0Z34
VEP001E8A
R SIDE FPC
CAS OPEN C.B.A.
VEP001E5A
VEE0Z33
3P
P1
BATTERY C.B.A.
VEP01953A
DC IN C.B.A.
VEP01957A
61P
SIDE CASE-R UNIT
MENU FPC C.B.A
VEP001G2A
MULTI-DIAL
MENU
6P
P1
P6002
CAMERA OP C.B.A.
VEP06F64A
SNS
USER2
FOCUS
USER3
WB
P6001
16P
LCD OPEN C.B.A.
VEP001E1A
2P
P6405
VWJ16E5080L0
P640
Speaker
SPEAKER u
2P
P6401
P6403
REW
PLAY
FF
SUB REC
REC
STOP
STILL
COUNTER
C.RESET
MODE
ZEBRA
OIS
RESET
AUTO
MANUAL
BATTERY
R SIDE C.B.A.
VEP06F68A
P6404
27P
LCD UNIT
HALL SENSOR
25P
FP903
MONITOR LCD PANEL

COMPONENT NAME	INTERCONNECTION	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
	(1/1)	
	SCM001	

1. SERVICING FIXTURES AND TOOLS

The following servicing tools are required for mechanical and electrical servicing and alignment.

The items marked **“NEW”** in the following list are necessary for the AG-DVC30/32/33.

Please refer to **“Y”** and **“N”** in column of table below, which tools required for servicing the NTSC and PAL model.

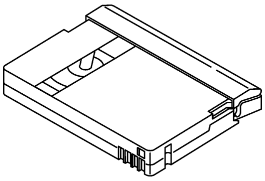
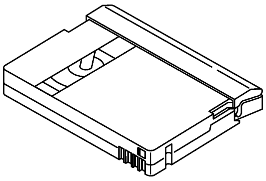
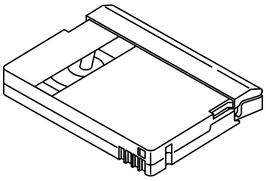
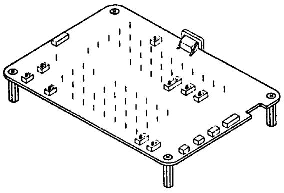
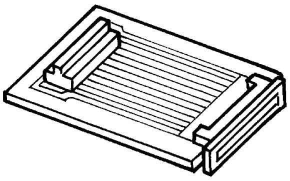
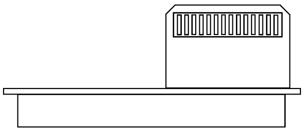
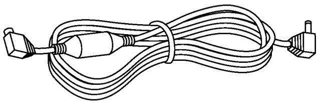
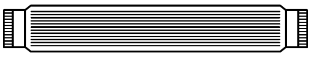
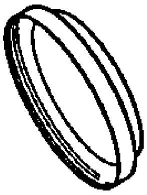
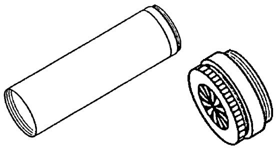
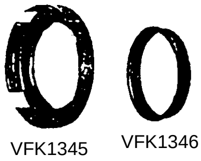
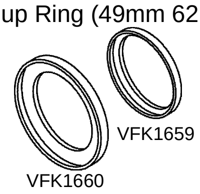
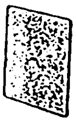
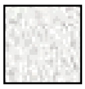
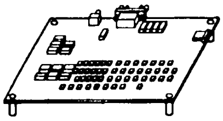
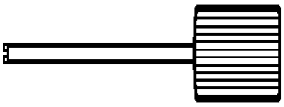
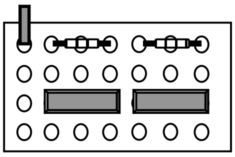
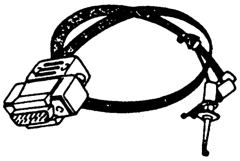
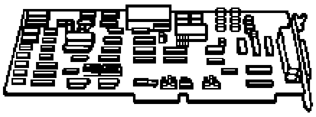
Please refer to **“Y”** in column of table below, these tools were also use for servicing the AG-DVX100/A and AG-DVC180/A.

1-1. Summary Table of Servicing Fixtures and Tools

No	Parts No.	NAME	NTSC Model	PAL Model	AG-DVX100/A AG-DVC180/A	REMARK
1	VFM3010EDS	DV Alignment Tape (Color bar)	Y	N	Y	
2	VFM3110EDS	DV Alignment Tape (Color bar)	N	Y	Y	
3	VFM3000EDS	DV Alignment Tape (Linearity)	Y	Y	Y	
4	VFK1217	Tape End/Beg Detect Cassette	Y	Y	Y	
5	*VFK1908	EVR Adjustment Software	Y	N	N	**NEW** Download from the WEB site.
6	*VFK1909	EVR Adjustment Software	N	Y	N	**NEW** Download from the WEB site.
7	*VFK1481K	LISTA Software	Y	Y	Y	Download from the WEB site.
8	VFK1308P	Measuring Board	Y	Y	Y	
9	VFK1309A	EVR Connector Board	Y	Y	Y	**NOTE 1**
10	VFK1763	Connector Adapter	Y	Y	N	60-30pin
11	VJA0941	DC Cable	Y	Y	Y	2 pieces Required
12	VFK1317	30pin Flat Cable	Y	Y	Y	2 pieces Required
13	VFK1164TAR43	43mm Attachment Ring	Y	Y	Y	
14	VFK1164TCM01	Collimator Set (Infinity Lens)	Y	Y	Y	
15	VFK1345	CC Filter Holder	Y	Y	Y	
16	VFK1346	Step Down Ring	Y	Y	Y	
17	VFK1659	Step-Up Ring (43mm-49mm)	Y	Y	Y	
18	VFK1660	Step-Up Ring (49mm-62mm)	Y	Y	Y	
19	VFK1341	CC Filter (LB40)	Y	N	Y	
20	VFK1342	CC Filter (LB80)	N	Y	Y	
21	VFK1347	CC Filter (LB120)	Y	Y	Y	
22	VFK1884	CC Filter (LBA2)	Y	Y	Y	
23	VFK1888	CC Filter (LBB6)	Y	Y	Y	
24	VFK1885	CC Filter (LBB2)	Y	N	Y	
25	VFK1886	CC Filter (CC C10)	N	Y	Y	
26	VFK1887	CC Filter (CC C20)	N	Y	Y	
27	VFK1409A	Measuring Board	Y	Y	Y	**NOTE 2**
28	VFK1899	Post Driver	Y	Y	N	**NEW, NOTE 3**
29	VFK1810	LISTA Measuring Board	Y	Y	Y	**NOTE 2**
30	VFK1186	LISTA Cable	Y	Y	Y	
31	VFK1300	A/D Converter Board	Y	Y	Y	ISA PC Board.

NOTE:

1. If you already have VFK1309, it can be modified to VFK1309A. (Refer to item “1-1. Modification procedure of VFK1309” on page ELE-1 in section 4.)
2. If you already have VFK1409S, it can be used for LISTA adjustment with VFK1810 instead of VFK1409A. (Refer to item “1-5. Connection of LISTA Adjustment system” on page MECH-3 in section 3.)
3. This Post Driver use for servicing the “A” mechanism of consumer model.

1 **VFM3010EDS** 2 **VFM3110EDS** DV Alignment Tape (Color bar) 	3 **VFM3000EDS** DV Alignment Tape (Linearity) 	4 **VFK1217** Tape End / Beg. Detect Cassette 	5 **VFK1908** 6 **VFK1909** EVR Adjustment Software 7 **VFK1481K** LISTA Software **DOWN LOAD**
8 **VFK1308P** Measuring Board 	9 **VFK1309A** EVR Connector Board 	10 **VFK1763** Connector Adapter 	11 **VJA0941** DC Cable 
12 **VFK1317** 30pin Flat Cable  (In case of using VFK1308P, required 2pcs. of this cable)	13 **VFK1164TAR43** 43 mm Attachment Ring 	14 **VFK1164TCM01** Collimator Set (Infinity Lens) 	15 **VFK1345** CC Filter Holder 16 **VFK1346** Step Down Ring 
17 **VFK1659** Step-up Ring (43mm 49mm) 18 **VFK1660** Step-up Ring (49mm 62mm) 	19 **VFK1341** (LB40) 20 **VFK1342** (LB80) 21 **VFK1347** (LB120) CC Filter 	22 **VFK1884** (LBA2) 23 **VFK1888** (LBB6) 24 **VFK1885** (LBB2) 25 **VFK1886** (CC C10) 26 **VFK1887** (CC C20) CC Filter 	27 **VFK1409A** Measuring Board 
28 **VFK1899** Post Driver 	29 **VFK1810** LISTA Measuring Board 	30 **VFK1186** LISTA Cable 	31 **VFK1300** A/D Converter Board 

To determine which servicing fixtures and tools are required for each adjustment, refer to the following table.

No.	Parts No.	NAME	ADJUSTMENT ITEM
1	VFM3010EDS	DV Alignment Tape (Color bar)	7-2. PG shifter Adjustment (SEC.4)
2	VFM3110EDS	DV Alignment Tape (Color bar)	
3	VFM3000EDS	DV Alignment Tape (Linearity)	1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3)
4	VFK1217	Tape End/Beg Detect Cassette	7-1. Sensitivity adj. of Tape sensors Adjustment (SEC.4)
5	VFK1908	EVR Adjustment Software	4. EEPROM (SEC.4) 5. ZOOM SW Center Value Adjustment (SEC.4) 6. CAMERA ADJUSTMENT PROCEDURE (SEC.4) 7. VTR ADJUSTMENT PROCEDURE (SEC.4) 8. LCD ADJUSTMENT PROCEDURE (SEC.4) 9. EVF ADJUSTMENT PROCEDURE (SEC.4)
6	VFK1909		
7	VFK1481K	LISTA Software	1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3)
8	VFK1308P	Measuring Board	5-2. Adjust Menu (SEC.1) 1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3) 1-11. Self-REC/PLAY Envelope Waveform Confirmation (SEC.3) 4. EEPROM (SEC.4) 5. ZOOM SW Center Value Adjustment (SEC.4) 6. CAMERA ADJUSTMENT PROCEDURE (SEC.4) 7. VTR ADJUSTMENT PROCEDURE (SEC.4) 8. LCD ADJUSTMENT PROCEDURE (SEC.4) 9. EVF ADJUSTMENT PROCEDURE (SEC.4)
9	VFK1309A	EVR Connector Board	
10	VFK1763	Connection Adapter	
11	VJA0941	DC Cable	
12	VFK1317	30pin Flat Cable	
13	VFK1164TAR43	43mm Attachment Ring	6-6. Zoom Tracking Adjustment (SEC.4)
14	VFK1164TCM01	Collimator Set (Infinity Lens)	
15	VFK1345	CC Filter Holder	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4) 6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4) 6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
16	VFK1346	Step Down Ring	
17	VFK1659	Step-Up Ring (43mm-49mm)	
18	VFK1660	Step-Up Ring (49mm-62mm)	
19	VFK1341	CC Filter (LB40)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
20	VFK1342	CC Filter (LB80)	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
21	VFK1347	CC Filter (LB120)	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4) 6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
22	VFK1884	CC Filter (LBA2)	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
23	VFK1888	CC Filter (LBB6)	
24	VFK1885	CC Filter (LBB2)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
25	VFK1886	CC Filter (CC C10)	
26	VFK1887	CC Filter (CC C20)	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
27	VFK1409A	Measuring Board	1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3)
28	VFK1899	Post Driver	1-9. LISTA Linearity Adjustment (SEC.3) 1-10. Tape Path Confirmation (SEC.3) 1-11. Self-REC/PLAY Envelope Waveform Confirmation (SEC.3)
29	VFK1810	LISTA Measuring Board	1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3)
30	VFK1186	LISTA Cable	
31	VFK1300	A/D Converter Board	

2. MAINTENANCE

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms have parts which will wear, and their wear and deterioration cause troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

The maintenance schedule requires replacement of mechanism unit, which contains a cylinder unit and so on.

2-1. Maintenance Schedule

No.	Part Name	Part No.	Cleaning	Replacement	Remark
---	Tape Transport Part	------	100 hours	------	*1
1	Mechanism Chassis Unit	VXY1843	------	Every 2000 hours	*2

Note:

Hours of use are based on the head rotation hours. (Head rotation hours can be confirm on item DRUM RUN in DIAGNOSTIC menu.)

Hours of use are recommendation. It may depend on temperature, humidity, quality of tape or dust condition.

Hours of use are listed as the reference of maintenance. They do not mean guarantee hours.

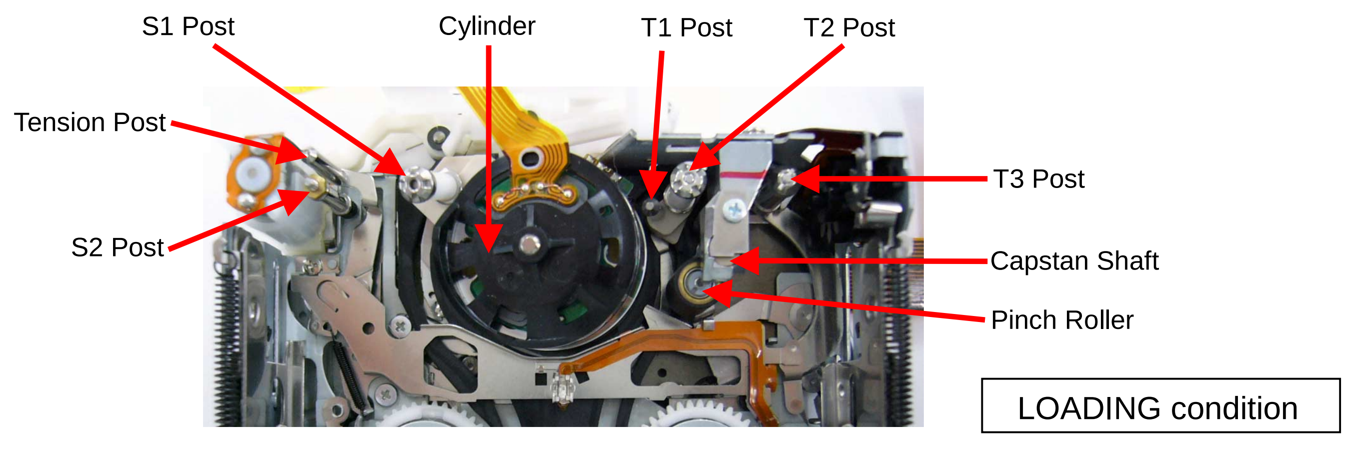
HOUR METER can be reset on ADJUST menu (Refer to item “5-2-4. Hour Meter Reset and LOG clear” in this section.)

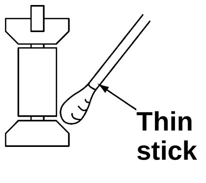
*1. Tape Transport part is cleaned by cleaning liquid.

*2. Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

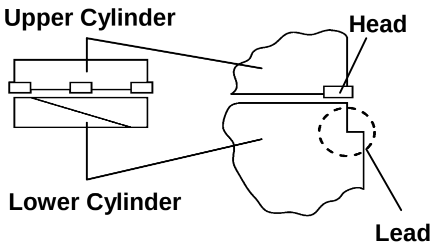
2-2. Cleaning of Tape Transport Part

Please clean the below indicated tape transport parts with cleaning liquid when needed.
(Tension Post, S1 Post, Cylinder & Heads, T1 Post, T2 Post, T3 Post, Capstan Shaft and Pinch Roller)





When cleaning the post, wrap a cloth on a pick. Wipe each post with a cloth dipped in cleaning liquid. And wipe it again with dry cloth.



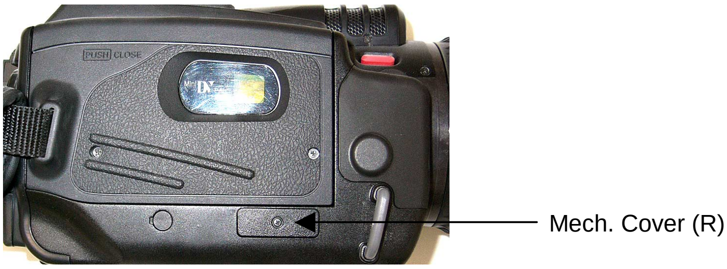
Do not forget cleaning the upper Cylinder, Head, tape transport part of Lower Cylinder and Lead, when cleaning the Cylinder.

3. MANUAL TAPE EJECT (EMERGENCY EJECT)

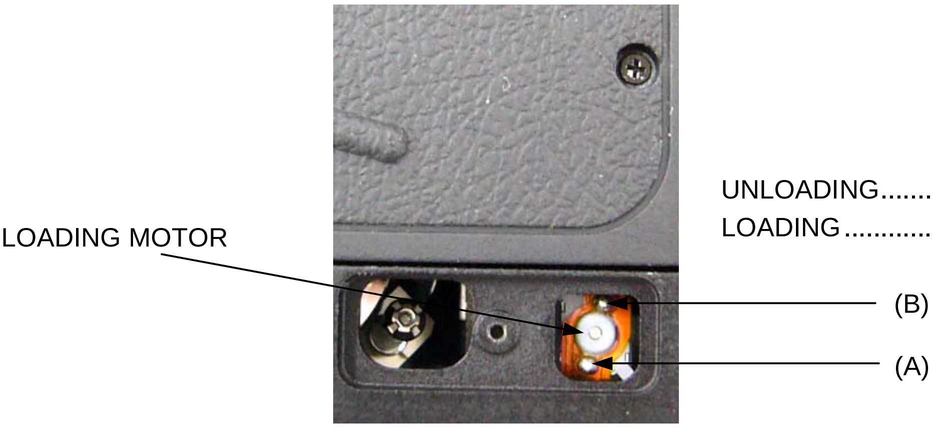
When the tape cannot be ejected by normal operation because of trouble in the electrical system or mechanical system, the tape can be removed from the unit manually by using the following method.

NOTE: By below indicated method, The unit will not take up tape slack. Be careful when removing the tape from Cassette Holder.

1. Remove the Mech. Cover (R).



2. Supply 4.5 Volts using 3 AA batteries in series to unload the posts using the motor.



UNLOADING.............A: +4.5V B: GND
LOADING..................A: GND B: +4.5V

3. Stop supplying the power when the tape is ejected and remove the tape from Cassette Holder.

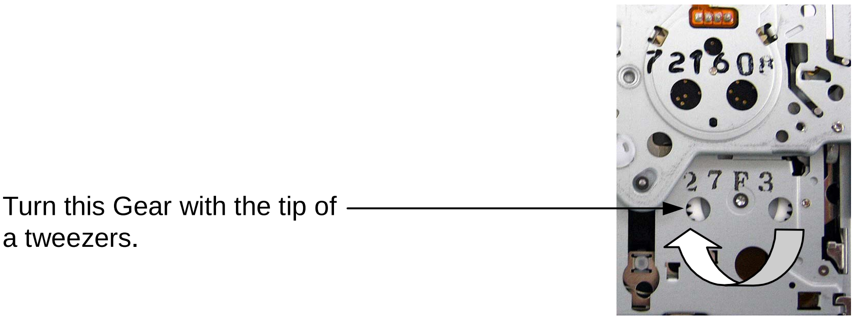
<How to rolls up tape>

Be sure to take up the tape slack so that tape does not become damaged.

1. Remove the Mechanism Unit.
2. Supply 4.5 Volts to unload the posts using the motor.
3. Stop supplying the power at unloading complete position.

NOTE: If power is supplied too long, then the Cassette tape will be ejected prematurely.

4. Turn the Gear of Supply Reel as shown in figure, and this will take up the slack in the tape.
5. Supply 4.5 Volts again to eject the tape using the motor and remove the tape from Cassette Holder.



(Bottom side of Mechanism)

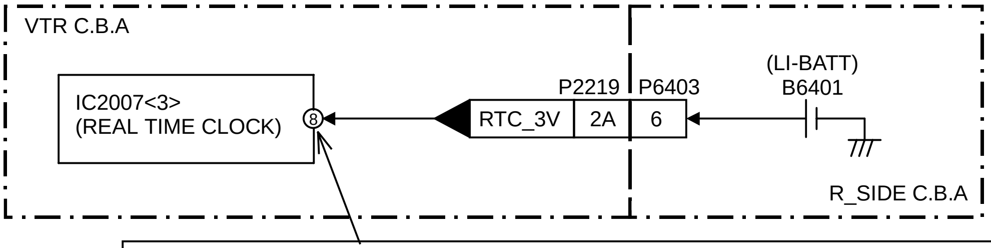
4. LITHIUM BATTERY

4-1. Replacement Procedure

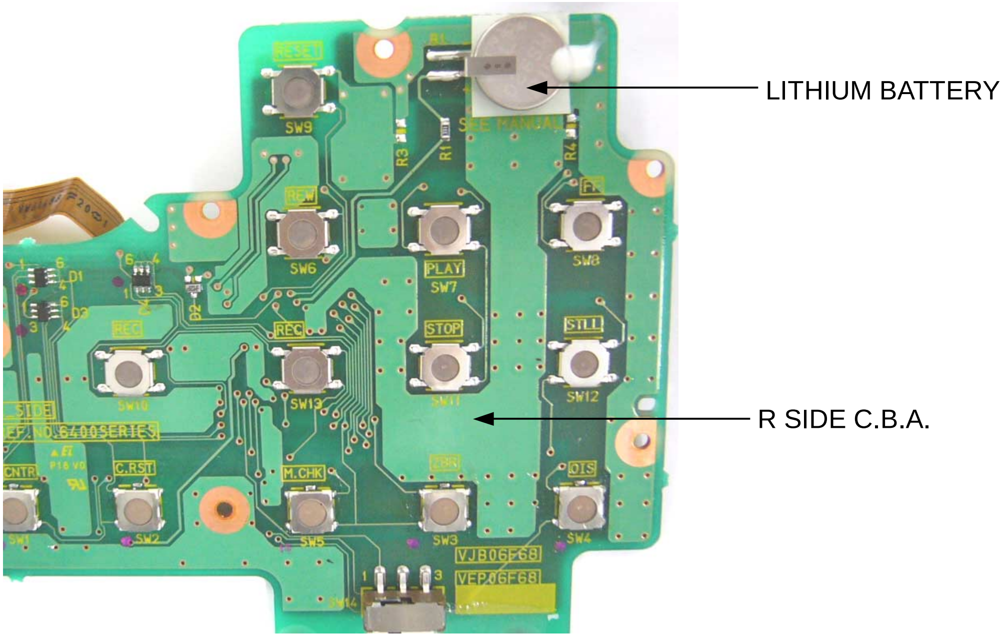
1. There is a Lithium battery on the R_SIDE C.B.A..
2. Unsolder the Lithium battery “Ref No: B6401/Part No: VSB0407” and then replace with the new one.

<INFORMATION>

The lithium battery is not rechargeable and may be discharged.



If input voltage becomes less than 2.0V, warning information is displayed.



NOTE:

The lithium battery is a critical component.
It must never be subjected to excessive heat of discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

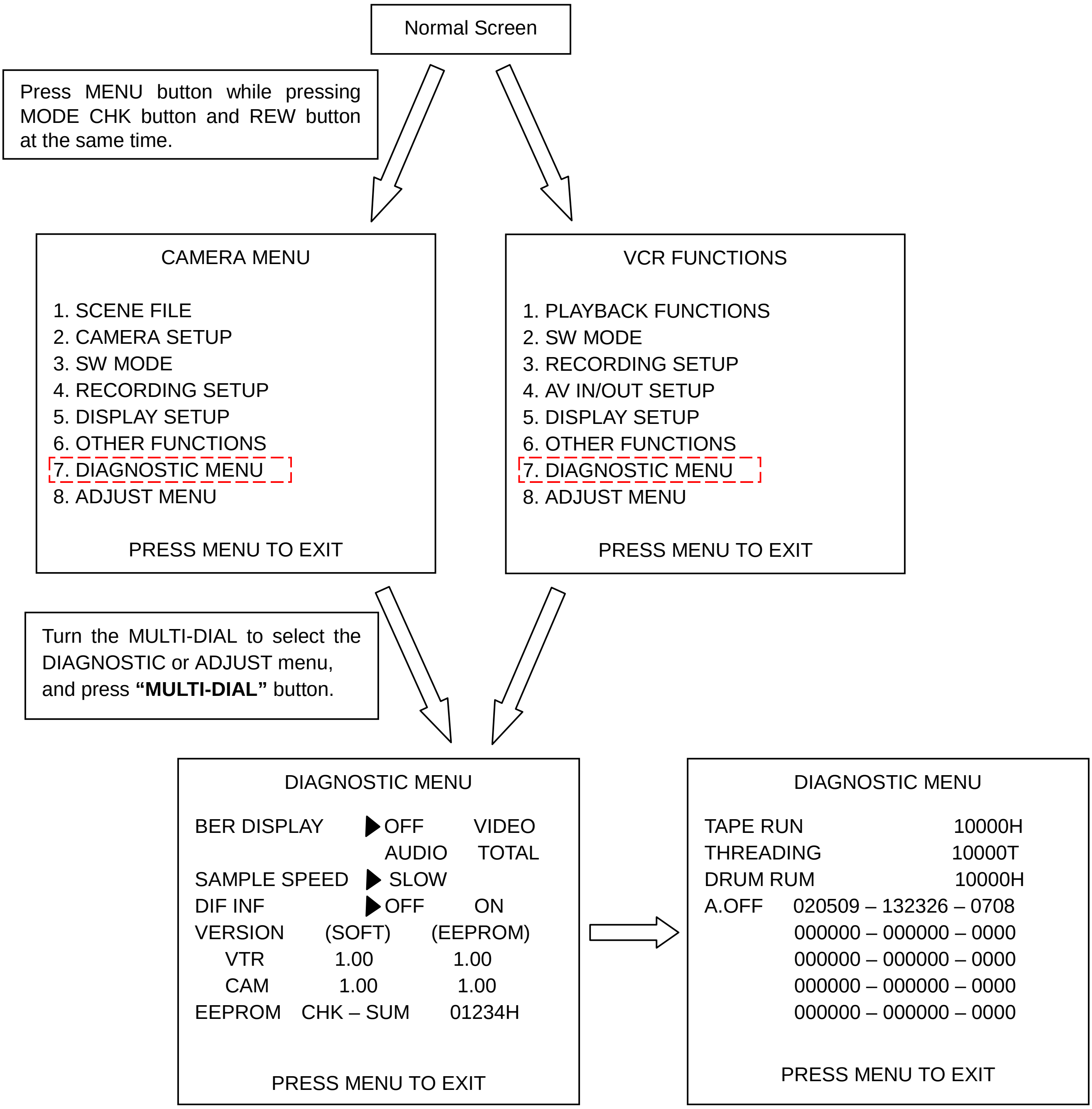
CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacture’s instructions.

5. SERVICE MENU

The DIAGNOSTIC and ADJUST menu can be displayed as follows.

Press and hold the **“MENU button”**. Press and hold the **“MODE CHK button”** and **“REW button”** at the same time, DIAGNOSTIC and ADJUST menu can be displayed.
Next, turn the **“MULTI-DIAL”** to select the DIAGNOSTIC or ADJUST menu, and press **“MULTI-DIAL”** button to open the DIAGNOSTIC or ADJUST menu.
NOTE: Another way to display the "DIAG" and “ADJUST" menu when you use the EVR tools is to place the VTR test SW on the VFK1308P to the L position. See item 5-2-1 how to connect the EVR tools, on page INF-12.



Press MENU button while pressing MODE CHK button and REW button at the same time.

```
CAMERA MENU

1. SCENE FILE
2. CAMERA SETUP
3. SW MODE
4. RECORDING SETUP
5. DISPLAY SETUP
6. OTHER FUNCTIONS
7. DIAGNOSTIC MENU
8. ADJUST MENU

PRESS MENU TO EXIT
```

```
VCR FUNCTIONS

1. PLAYBACK FUNCTIONS
2. SW MODE
3. RECORDING SETUP
4. AV IN/OUT SETUP
5. DISPLAY SETUP
6. OTHER FUNCTIONS
7. DIAGNOSTIC MENU
8. ADJUST MENU

PRESS MENU TO EXIT
```

Turn the MULTI-DIAL to select the DIAGNOSTIC or ADJUST menu, and press **“MULTI-DIAL”** button.

```
DIAGNOSTIC MENU

BER DISPLAY      ▶OFF     VIDEO
                  AUDIO    TOTAL
SAMPLE SPEED     ▶ SLOW
DIF INF          ▶OFF      ON
VERSION      (SOFT)     (EEPROM)
   VTR         1.00        1.00
   CAM         1.00        1.00
EEPROM    CHK – SUM     01234H

PRESS MENU TO EXIT
```

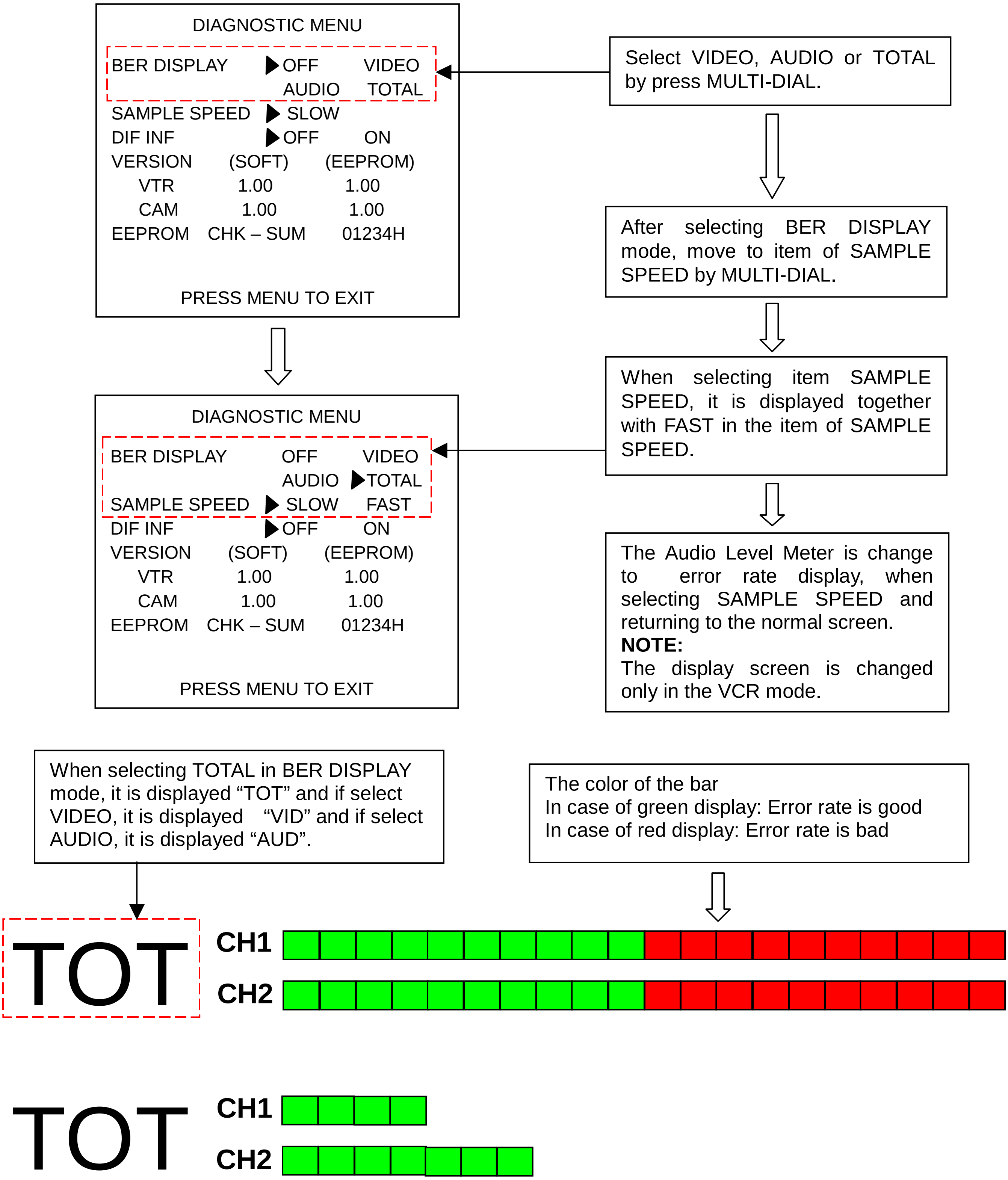
```
DIAGNOSTIC MENU

TAPE RUN                   10000H
THREADING                  10000T
DRUM RUM                   10000H
A.OFF    020509 – 132326 – 0708
         000000 – 000000 – 0000
         000000 – 000000 – 0000
         000000 – 000000 – 0000
         000000 – 000000 – 0000

PRESS MENU TO EXIT
```

5-1. Diagnostic Menu

The DIAGNOSTIC menu is the menu to confirm the condition of the VCR and it is possible to do the confirmation of the error rate, software version, auto off log and DIF status.

5-1-1. How to display the Error Rate.

This unit can be displayed Error Rate and it shows the playing condition of the VCR.
In case of the error rate is displayed, BER DISPLAY and SAMPLE SPEED mode is select on DIAGNOSTIC menu.



```
DIAGNOSTIC MENU

BER DISPLAY     ▶OFF       VIDEO
                 AUDIO     TOTAL
SAMPLE SPEED   ▶ SLOW
DIF INF         ▶OFF       ON
VERSION     (SOFT)      (EEPROM)
   VTR        1.00         1.00
   CAM        1.00         1.00
EEPROM   CHK – SUM      01234H


PRESS MENU TO EXIT
```

Select VIDEO, AUDIO or TOTAL by press MULTI-DIAL.

After selecting BER DISPLAY mode, move to item of SAMPLE SPEED by MULTI-DIAL.

When selecting item SAMPLE SPEED, it is displayed together with FAST in the item of SAMPLE SPEED.

```
DIAGNOSTIC MENU

BER DISPLAY      OFF       VIDEO
                 AUDIO    ▶TOTAL
SAMPLE SPEED   ▶ SLOW      FAST
DIF INF         ▶OFF       ON
VERSION     (SOFT)      (EEPROM)
   VTR        1.00         1.00
   CAM        1.00         1.00
EEPROM   CHK – SUM      01234H


PRESS MENU TO EXIT
```

The Audio Level Meter is change to error rate display, when selecting SAMPLE SPEED and returning to the normal screen.

NOTE:

The display screen is changed only in the VCR mode.

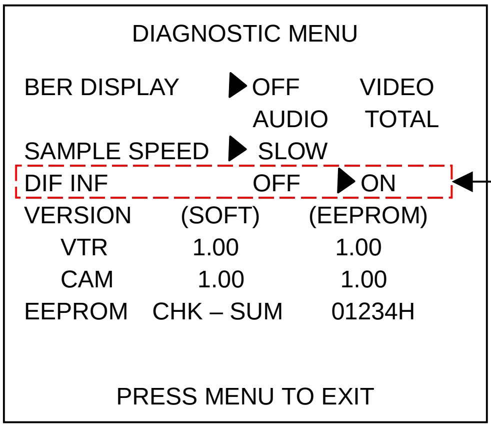
When selecting TOTAL in BER DISPLAY mode, it is displayed "TOT" and if select VIDEO, it is displayed "VID" and if select AUDIO, it is displayed "AUD".

The color of the bar
In case of green display: Error rate is good
In case of red display: Error rate is bad

How to confirm the Error rate.

1. Select the TOTAL in item of BER DISPLAY.
2. Record the color bar signal on LP mode and playback the recorded portion. Confirm that the number of bar on display within 10 bars or less. The less bars displayed the better the error rate.

5-1-2. DIF STATUS Display.



```
          DIAGNOSTIC MENU

BER DISPLAY      ▶OFF      VIDEO
                  AUDIO     TOTAL
SAMPLE SPEED     ▶ SLOW
DIF INF           OFF    ▶ON
VERSION      (SOFT)      (EEPROM)
    VTR        1.00         1.00
    CAM        1.00         1.00
EEPROM   CHK – SUM       01234H


        PRESS MENU TO EXIT
```

Set the item “DIF INF” to ON and it does ON/OFF of the DIF STATUS display by pressing the MODE CHECK button on normal screen.

The displayed contents are as follows.

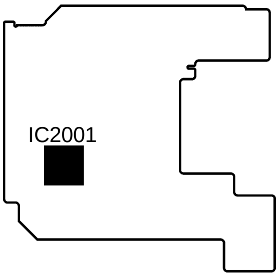
Items	Description	Remark
NODECNT	Number of NODE connections.	
MY_ID	NODE ID of this unit.	
ROOT_ID	ROOT ID	
IRM_ID	PHY ID of IRM	IRM(Isochronous Resonance Manager)
IN_CH	Input channel number of Isochronous data.	
OUT_CH	Output channel number of Isochronous data.	
DIF MODE	DIF mode	
RX_IN	Received condition of Isochronous data.	
O_BBC	Transmitted condition of Isochronous data.	
STYPE	Type of VIDEO signal	
FIELD	NTSC/PAL	
IN_SPD	Speed of Isochronous data.	OUT_SPD in CAMERA MODE
UID	USER ID of 1394 equipment	
AS	Source pack of AUDIO	
ASC	Source control pack of AUDIO	
VS	Source pack of VIDEO	
VSC	Source control pack of VIDEO	
HEADER	HEADER pack	

5-1-3. Software Version Display.

This unit have two pieces of microprocessor and two pieces of EEPROM

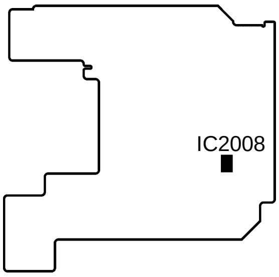
---	Camera board	VTR board
Microprocessor	IC3500	IC2001
EEPROM	IC3006	IC2008

VTR C.B.A.



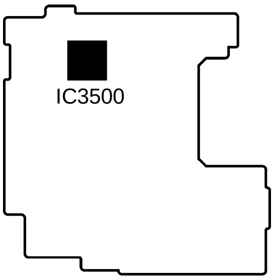
(FOIL SIDE)

VTR C.B.A.



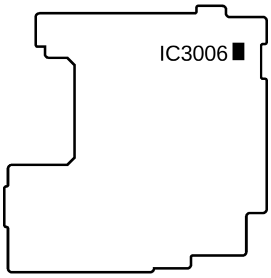
(COMPONENT SIDE)

CAMERA C.B.A.

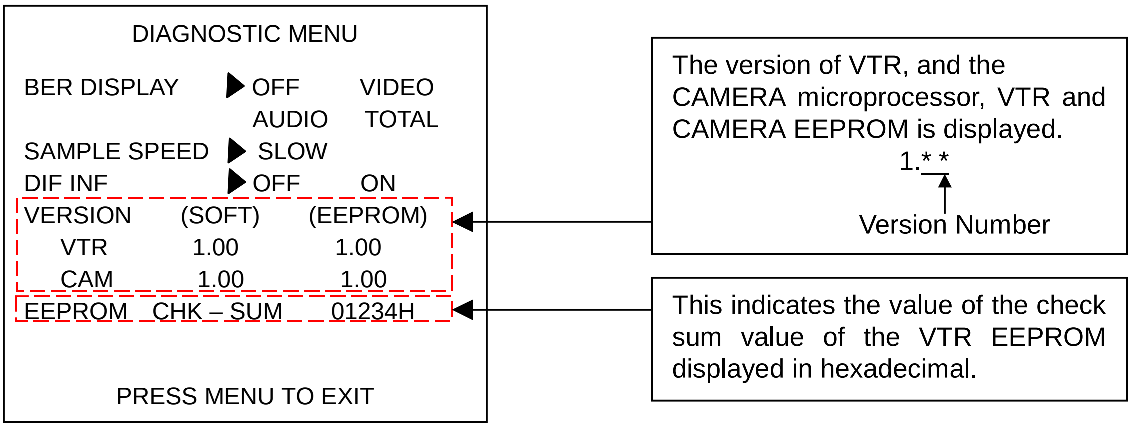


(FOIL SIDE)

CAMERA C.B.A.



(COMPONENT SIDE)



```
DIAGNOSTIC MENU

BER DISPLAY      ▶ OFF     VIDEO
                   AUDIO   TOTAL
SAMPLE SPEED     ▶ SLOW
DIF INF          ▶ OFF       ON
VERSION     (SOFT)     (EEPROM)
   VTR       1.00        1.00
   CAM       1.00        1.00
EEPROM   CHK – SUM     01234H

PRESS MENU TO EXIT
```

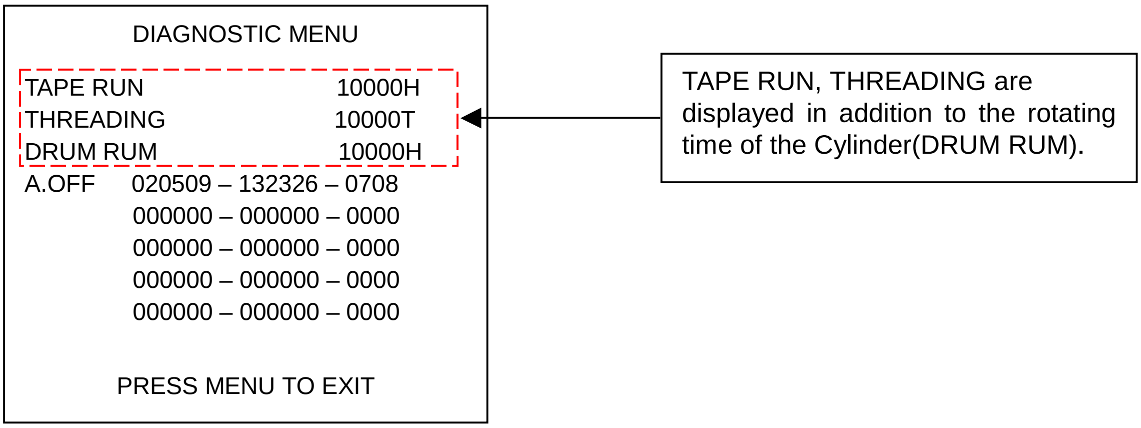
The version of VTR, and the CAMERA microprocessor, VTR and CAMERA EEPROM is displayed.

1.* *

Version Number

This indicates the value of the check sum value of the VTR EEPROM displayed in hexadecimal.

5-1-4. Hour Meter Display.



```
DIAGNOSTIC MENU

TAPE RUN                  10000H
THREADING                 10000T
DRUM RUM                  10000H
A.OFF   020509 – 132326 – 0708
        000000 – 000000 – 0000
        000000 – 000000 – 0000
        000000 – 000000 – 0000
        000000 – 000000 – 0000

PRESS MENU TO EXIT
```

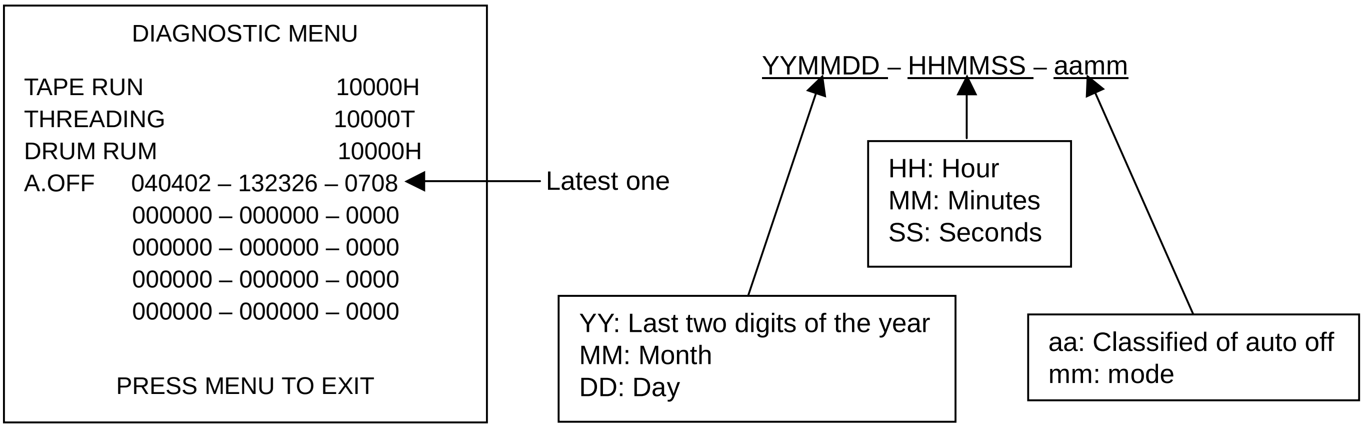
TAPE RUN, THREADING are displayed in addition to the rotating time of the Cylinder(DRUM RUM).

ITEM	**Display Data**	**Description**
TAPE RUN	00000H – 99999H	It displays the time that the tape is running in units of hours.
THREADING	00000T – 99999T	It displays the number of times the tape is inserted.
DRUM RUN	00000H – 99999H	It displays the time that the cylinder is rotating in units of hours. It displays same time as in the item HOUR METER of OTHER FUNCTION menu.

5-1-5. Auto Off Log

The VCR can display warning and auto off as alarm display. If case of the auto off occurs, the number and message are displayed in the normal screen. Contents of auto off can be confirm until previous 5 problem in diagnostic menu.

When auto off occurs, VCR memorizes date, time, classified of auto off and mode follow as indicated in format below. Diagnostic menu can display only 5 problems.



```
           DIAGNOSTIC MENU

TAPE RUN                      10000H
THREADING                     10000T
DRUM RUM                      10000H
A.OFF     040402 – 132326 – 0708
          000000 – 000000 – 0000
          000000 – 000000 – 0000
          000000 – 000000 – 0000
          000000 – 000000 – 0000

         PRESS MENU TO EXIT
```

HH: Hour
MM: Minutes
SS: Seconds

YY: Last two digits of the year
MM: Month
DD: Day

aa: Classified of auto off
mm: mode

For example, in case of displayed “040402–132326–0708”, Cylinder Lock occurred in normal playback mode at 13:23:26 on April 2th in 2004.
Please refer to below indicated “auto off” and “mode” tables.

< aa: Classified of AUTO OFF >

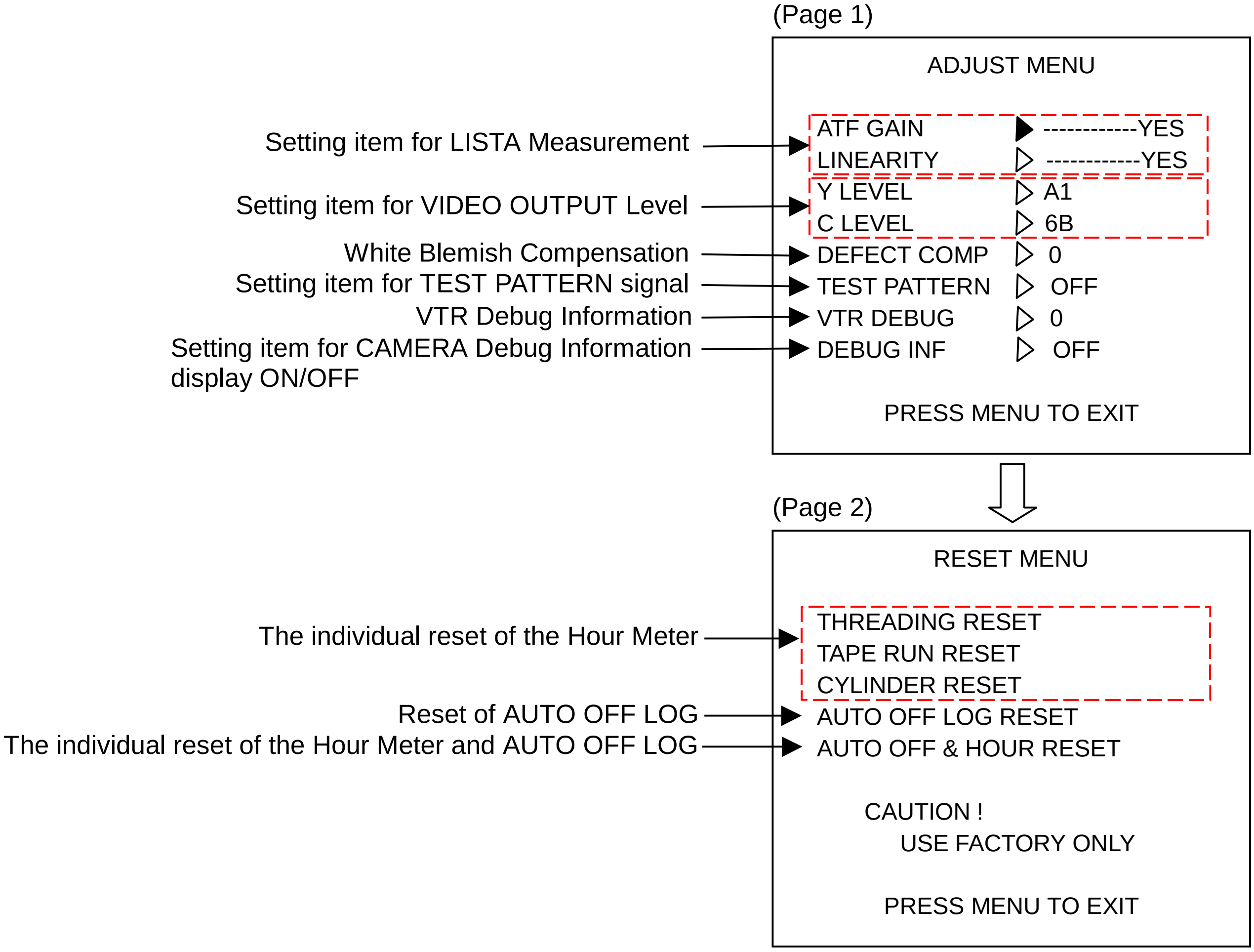
aa	Contents
01	FOCUS MOTOR LOCK
03	PSD NG
07	CYLINDER LOCK
08	LOADING LOCK
09	UNLOADING LOCK
0A	T REEL LOCK
0B	S REEL LOCK

NOTE: The messages “FOCUS MOTOR LOCK” and “PSD NG” are warning messages only and not the AUTO OFF mode.

< mm : MODE >

mm	Contents	mm	Contents
01	EJECT	12	AUDIO DUB RECORDING
02	STOP 1(CAMERA mode)	13	CAMERA RECORDING STANDBY
03	STOP 2(VCR mode)	14	CAMERA RECORDING
04	FAST FORWARD	15	CAMERA SEARCH (FORWARD)
05	REWIND	16	CAMERA SEARCH (REVERSE)
06	RECORDING STANDBY	17	REC REVIEW
07	MORMAL RECORDING	18	CAMERA EJECT
08	NORMAL PLAYBACK	1D	CYLINDER OFF
09	REVERSE PLAYBACK	22	SEARCH (FORWARD)
0A	CUE (FAST PLAYBACK)	23	SEARCH (REVERSE)
0B	REVIEW (FAST PLAYBACK)	24	BLANK SEARCH
0C	SLOW PLAYBACK	25	FRAME ADVANCE PLAYBACK
0D	REVERSE SLOW PLAYBACK	26	REVERSE FRAME ADVANCE PLAYBACK
11	AUDIO DUB STANDBY	---	---

5-2. Adjust Menu


(Page 1)
Setting item for LISTA Measurement
Setting item for VIDEO OUTPUT Level
White Blemish Compensation
Setting item for TEST PATTERN signal
VTR Debug Information
Setting item for CAMERA Debug Information display ON/OFF
(Page 2)
The individual reset of the Hour Meter
Reset of AUTO OFF LOG
The individual reset of the Hour Meter and AUTO OFF LOG

ADJUST MENU

ATF GAIN ▶ ------------YES
LINEARITY ▷ ------------YES
Y LEVEL ▷ A1
C LEVEL ▷ 6B
DEFECT COMP ▷ 0
TEST PATTERN ▷ OFF
VTR DEBUG ▷ 0
DEBUG INF ▷ OFF

PRESS MENU TO EXIT

RESET MENU

THREADING RESET
TAPE RUN RESET
CYLINDER RESET
AUTO OFF LOG RESET
AUTO OFF & HOUR RESET

CAUTION !
USE FACTORY ONLY

PRESS MENU TO EXIT

NOTE 1: It isn't possible to do the setting of the item of DEFFECT COMP", "TEST PATTERN", "VTR DEBUG" and "DEBUG INF". This is for factory use only.

NOTE 2: The Adjust menu screen can not be shifted to Page 2 in the CAMERA mode. The menu screen can be shifted to Page 2, when connecting EVR tools in the VCR mode and making VTR_TEST SW of the measurement board set to L position.

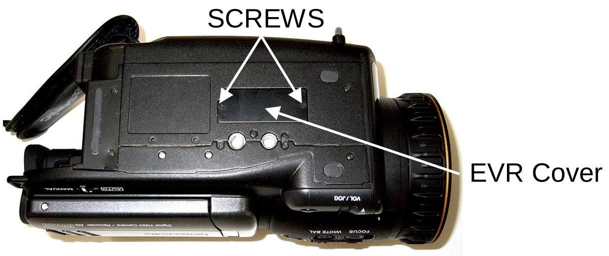
5-2-1. Connection of EVR tools

< Required Tools >

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	**NOTE:** VFK1309 also can be use
Connection Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	

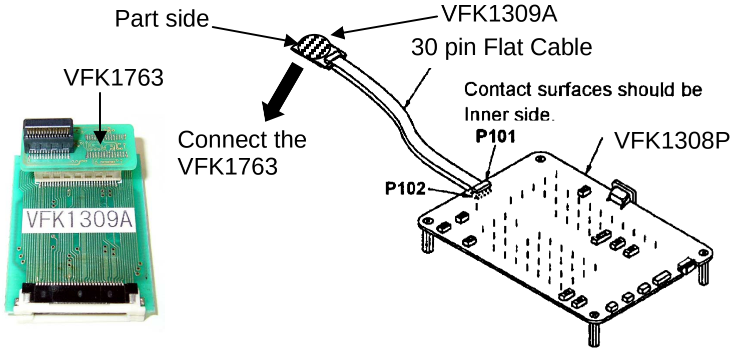
Connect the EVR tools as follows.

1. Unscrew 2 screws and remove the EVR cover.


SCREWS
EVR Cover

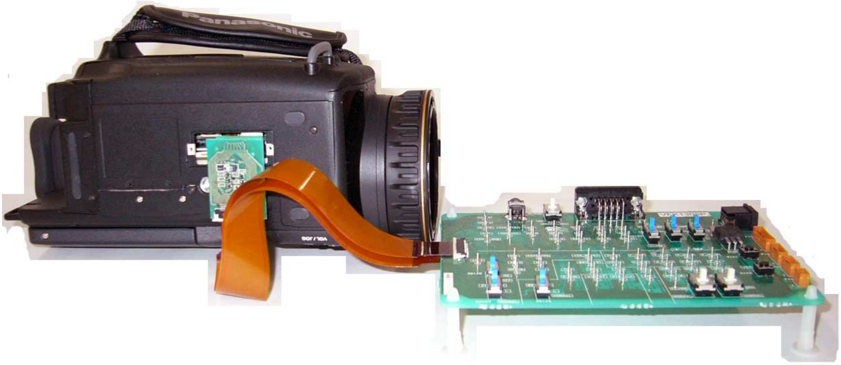
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figure. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
If the connector is attached backward, it will not work.



3. Connect the Connection Adapter (VFK1763) to EVR connector in Unit. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

When the VFK1763 is connected to EVR connector, be careful of the direction of VFK1309A. Please follow as shown in the figure.



5-2-2. Setting item for LISTA Measurement (Only VCR mode)

ATF GAIN

To confirm the ATF sensitivity, change the tape speed.
By pressing MULTI-DIAL button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.

NOW SERVO ADJUST
PUSH MENU TO RETURN

It will be returned to ADJUST MENU when the MENU key is pressed in this condition.

LINEARITY

To confirm the LINEARITY, change the ATF sensitivity.
By pressing MULTI-DIAL button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.

NOW SERVO ADJUST
PUSH MENU TO RETURN

It will be returned to ADJUST MENU when the MENU key is pressed in this condition.
NOTE: ATF GAIN and LINEARITY can not be selected on CAMERA mode.

5-2-3. Adjustment item for Video Level

Y LEVEL
Y level of AV OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Luminance level adjustment in EVR adjustment.

C LEVEL
C level of AV OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Chroma level adjustment in EVR adjustment.

5-2-4. Hour Meter Reset and LOG Clear(Only VCR mode)

The Hour Meter and Auto Off Log data can be reset by items on page 2 in Adjust menu screen. To shift page 2 screen, connect the EVR tools and set VTR_TEST SW of the measurement board to L position follow the item “5-2-1. Connection of EVR Tools”.

THREADING RESET
It resets the threading number of times.

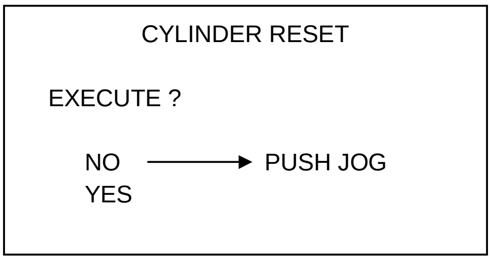
TAPE RUN RESET
It resets tape running time.

CYLINDER RESET
It resets cylinder rotating time.

< How to reset Hour Meter >

1. The following message is displayed when choosing the item to reset with MULTI-DIAL and pushing MULTI-DIAL.

(In case select the item CYLINDER)

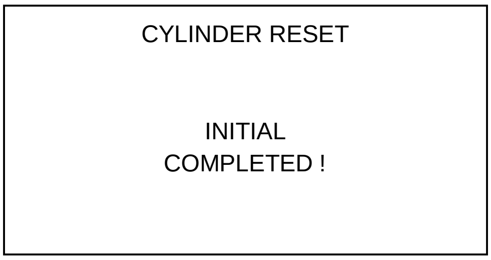


CYLINDER RESET

EXECUTE ?

NO → PUSH JOG
YES

2. Select YES and when pushing MULTI-DIAL, reset is executed and the following message is displayed.



CYLINDER RESET

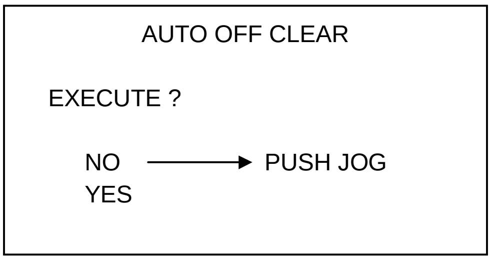
INITIAL
COMPLETED !

AUTO OFF LOG RESET

It resets auto off log information.

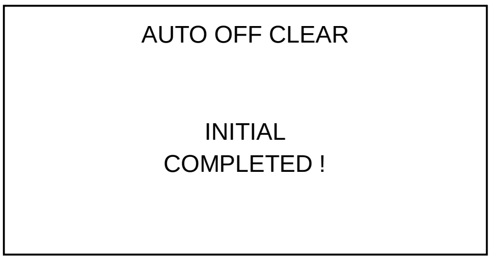
< How to reset Auto Off Log >

1. The following message is displayed when choosing the item “AUTO OFF LOG RESET” and pushing MULTI-DIAL.



```
          AUTO OFF CLEAR

EXECUTE ?

   NO  ───────▶ PUSH JOG
   YES
```

2. Select YES and when pushing MULTI-DIAL, reset is executed and the following message is displayed.



```
          AUTO OFF CLEAR


              INITIAL
            COMPLETED !
```

AUTO OFF & HOUR METER RESET

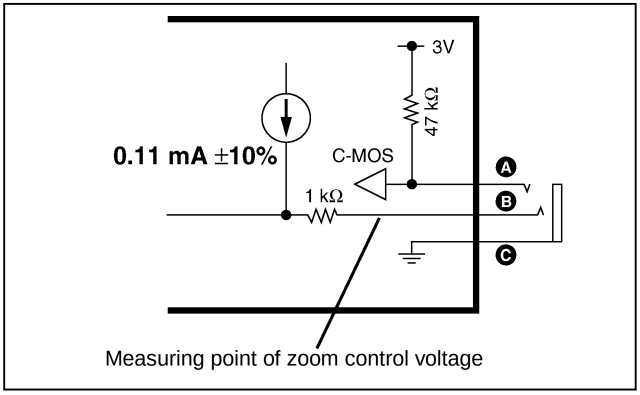
It resets auto off log information and hour meter at the same time.
The procedure of resetting is same as the item auto off log and the hour meter.

6. CAMERA REMOTE

The control equipment is connected to CAMERA REMOTE jack to enable zooming and record start/stop to be initiated by remote control.
NOTE: CAMERA remote control is only effective in the CAMERA mode.
Please refer to below indicated specification, When external remote is checked.

Terminal (refer to figure A)	Contents
A	Record start/stop input
B	Zooming control input
C	GND

Equivalent circuit of CAM REMOTE jack



Measuring point of zoom control voltage

Figure A

6-1. Record start / stop input

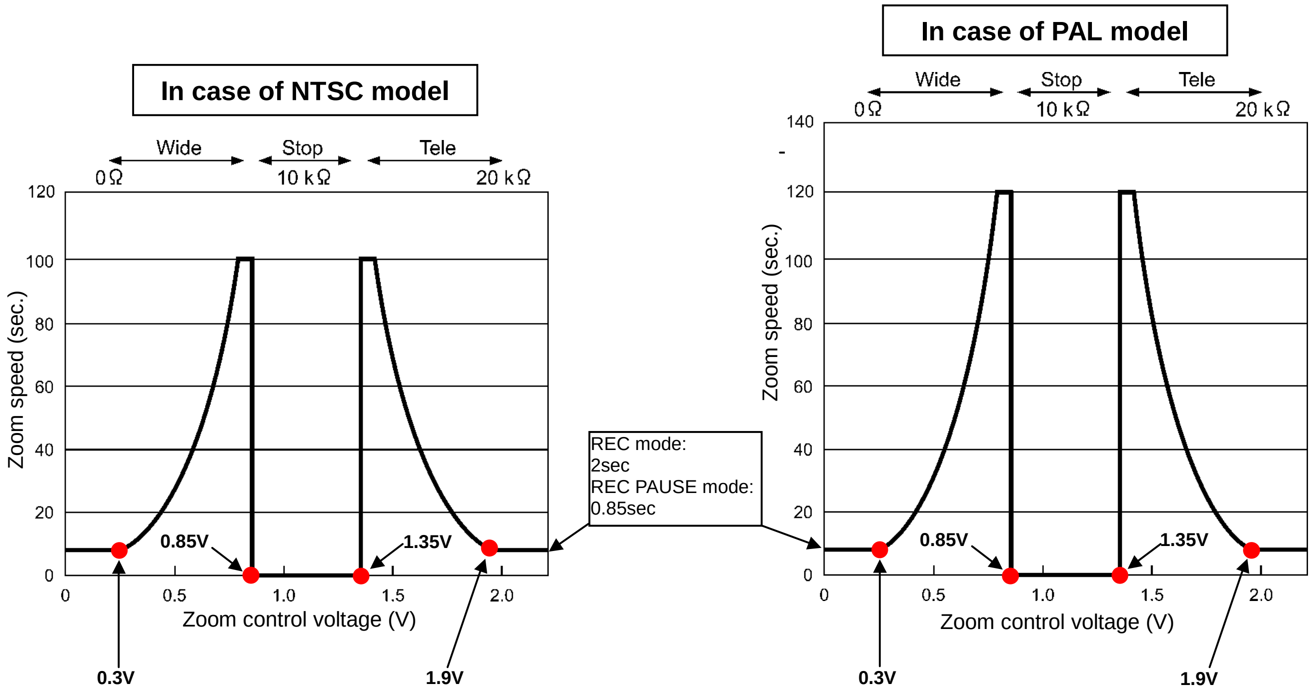
Every time A terminal connects with the GND, it repeats recording and a recording stop.

6-2. Zooming control input

With the voltage to input to the B terminal, the zoom speed changes. As for the relation between the zoom control voltage and the zoom speed, it is as shown in the following.

Relation between the zoom control voltage and zoom speed

NOTE:
The control voltage and the zoom speed, which are shown below are a reference value. Because there is a little difference, see as the reference data.
And the following figure shows zoom low-speed mode. The relation between the control voltage and the zoom speed in the high speed and the medium (standard) speed modes are a little different.

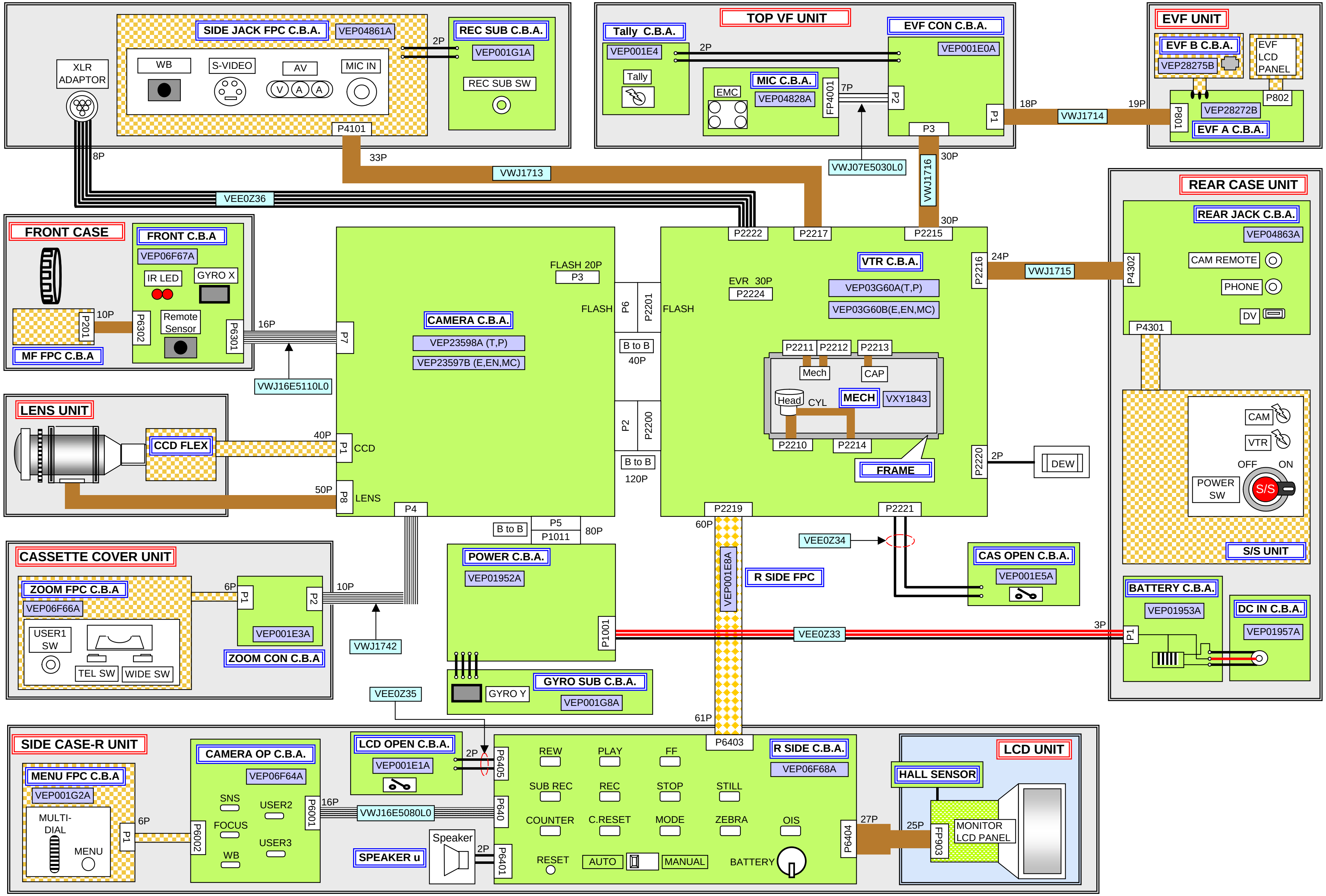


In case of NTSC model

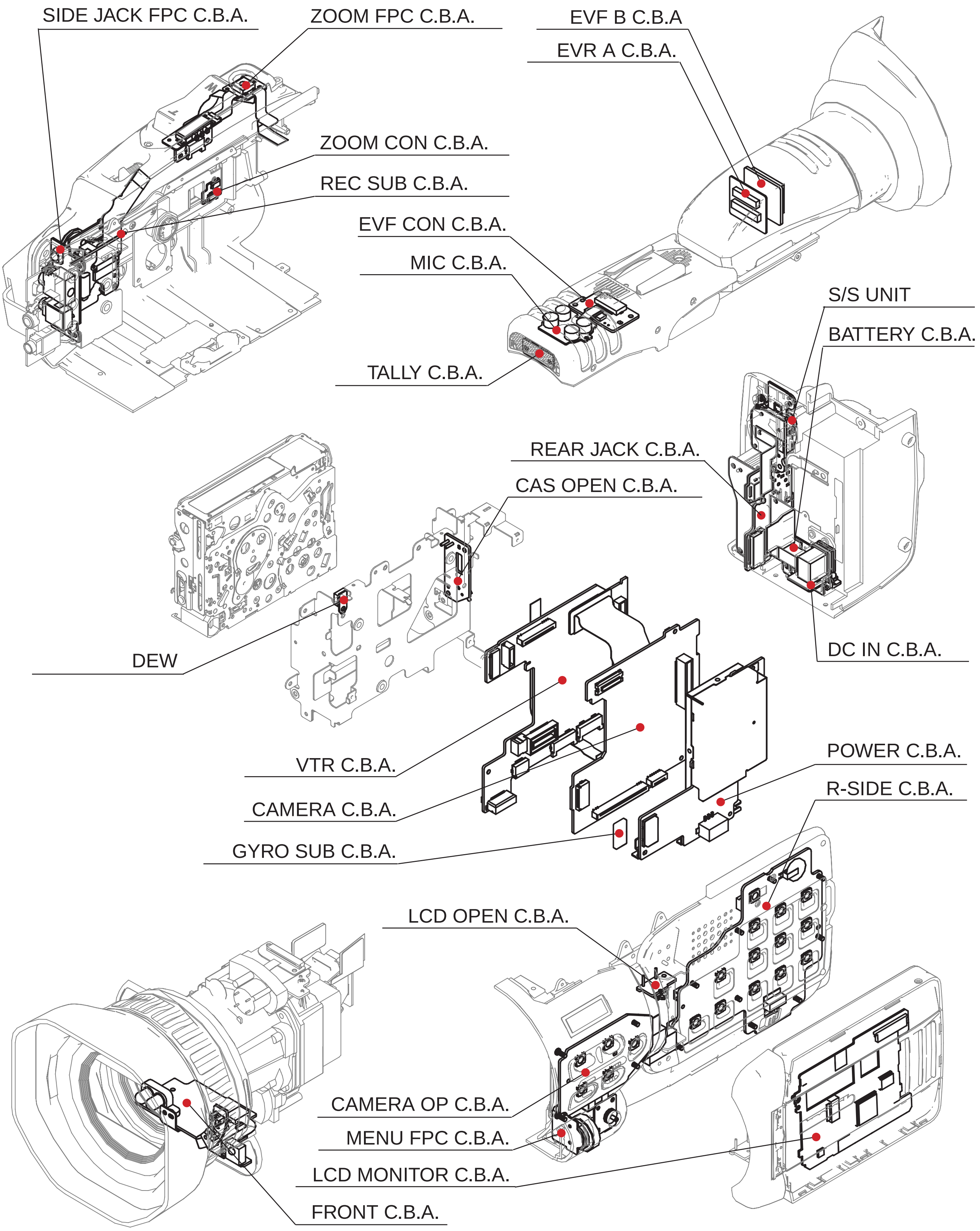
In case of PAL model

REC mode:
2sec
REC PAUSE mode:
0.85sec

INTERCONNECTION


SIDE JACK FPC C.B.A.
VEP04861A
WB
S-VIDEO
AV
MIC IN
V A A
XLR ADAPTOR
P4101
2P
REC SUB C.B.A.
VEP001G1A
REC SUB SW
8P
33P
VWJ1713
VEE0Z36
TOP VF UNIT
Tally C.B.A.
VEP001E4
Tally
2P
EMC
MIC C.B.A.
VEP04828A
FP4001
7P
EVF CON C.B.A.
VEP001E0A
P2
P1
P3
VWJ07E5030L0
VWJ1716
30P
18P
VWJ1714
19P
EVF UNIT
EVF B C.B.A.
VEP28275B
EVF LCD PANEL
P802
P801
VEP28272B
EVF A C.B.A.
REAR CASE UNIT
REAR JACK C.B.A.
VEP04863A
CAM REMOTE
PHONE
DV
P4302
P4301
24P
VWJ1715
FRONT CASE
FRONT C.B.A
VEP06F67A
IR LED
GYRO X
Remote Sensor
P201
10P
P6302
P6301
MF FPC C.B.A
16P
VWJ16E5110L0
P7
FLASH 20P
P3
FLASH
P6
P2201
CAMERA C.B.A.
VEP23598A (T,P)
VEP23597B (E,EN,MC)
B to B
40P
P2
P2200
B to B
120P
P2222
P2217
P2215
30P
VTR C.B.A.
EVR 30P
P2224
VEP03G60A(T,P)
VEP03G60B(E,EN,MC)
FLASH
P2216
P2211
P2212
P2213
Mech
CAP
Head
CYL
MECH
VXY1843
P2210
P2214
FRAME
P2220
2P
DEW
LENS UNIT
CCD FLEX
40P
P1
CCD
50P
P8
LENS
P4
B to B
P5
P1011
80P
P2219
P2221
60P
VEE0Z34
CAS OPEN C.B.A.
VEP001E5A
CAM
VTR
OFF
ON
POWER SW
S/S
S/S UNIT
CASSETTE COVER UNIT
ZOOM FPC C.B.A
VEP06F66A
6P
P1
P2
10P
VEP001E3A
USER1 SW
TEL SW
WIDE SW
ZOOM CON C.B.A
VWJ1742
POWER C.B.A.
VEP01952A
P1001
VEP001E8A
R SIDE FPC
VEE0Z33
3P
BATTERY C.B.A.
VEP01953A
P1
DC IN C.B.A.
VEP01957A
GYRO Y
GYRO SUB C.B.A.
VEP001G8A
VEE0Z35
61P
SIDE CASE-R UNIT
MENU FPC C.B.A
VEP001G2A
MULTI-DIAL
MENU
P1
6P
P6002
CAMERA OP C.B.A.
VEP06F64A
SNS
USER2
FOCUS
WB
USER3
P6001
16P
VWJ16E5080L0
LCD OPEN C.B.A.
VEP001E1A
2P
P6405
P640
SPEAKER u
Speaker
2P
P6401
P6403
REW
PLAY
FF
SUB REC
REC
STOP
STILL
COUNTER
C.RESET
MODE
ZEBRA
OIS
RESET
AUTO
MANUAL
BATTERY
R SIDE C.B.A.
VEP06F68A
P6404
27P
LCD UNIT
HALL SENSOR
25P
FP903
MONITOR LCD PANEL

8. CIRCUIT BOARD LAYOUT

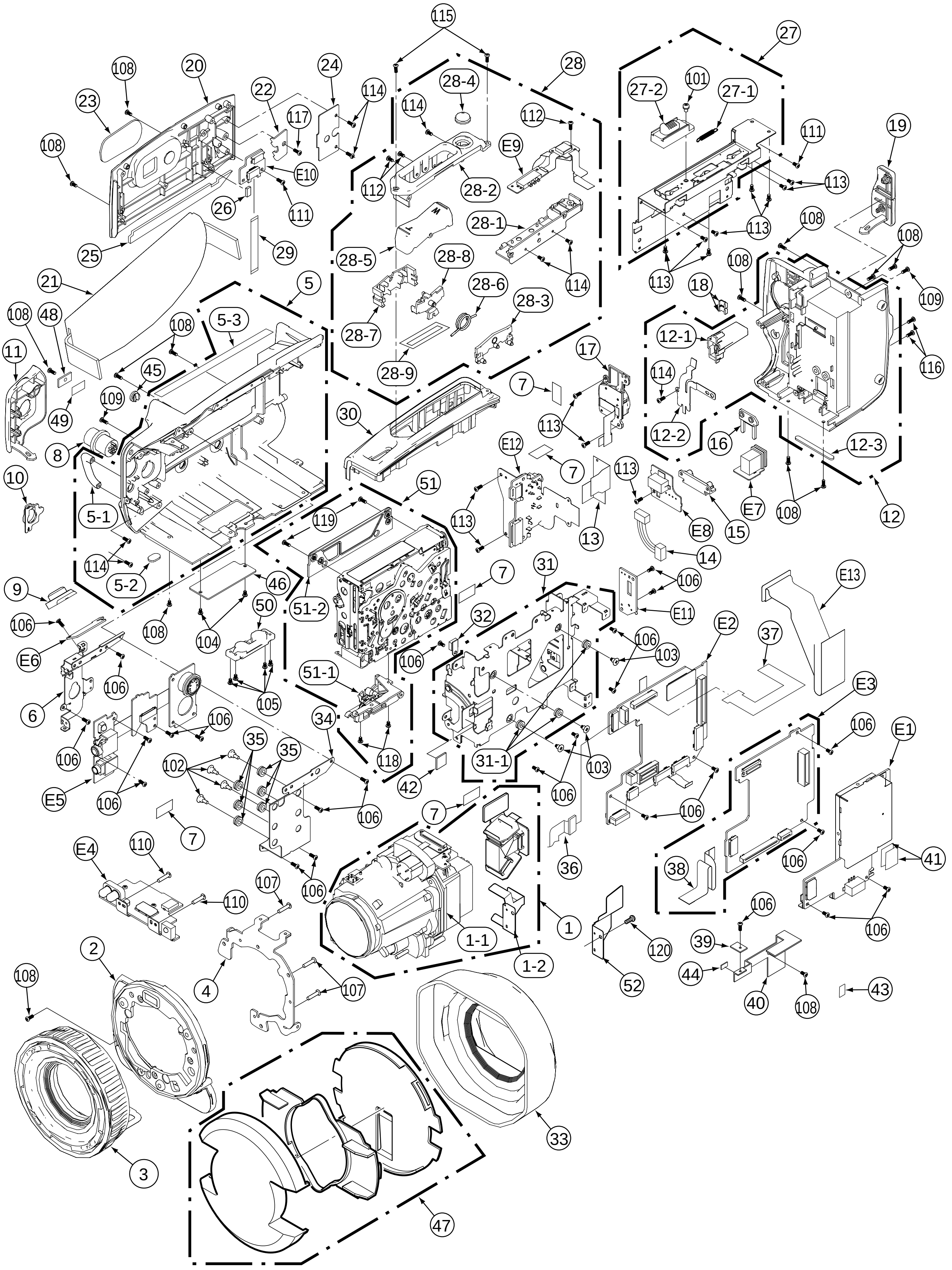

SIDE JACK FPC C.B.A.
ZOOM FPC C.B.A.
EVF B C.B.A
EVR A C.B.A.
ZOOM CON C.B.A.
REC SUB C.B.A.
EVF CON C.B.A.
MIC C.B.A.
TALLY C.B.A.
S/S UNIT
BATTERY C.B.A.
REAR JACK C.B.A.
CAS OPEN C.B.A.
DEW
DC IN C.B.A.
VTR C.B.A.
CAMERA C.B.A.
GYRO SUB C.B.A.
POWER C.B.A.
R-SIDE C.B.A.
LCD OPEN C.B.A.
CAMERA OP C.B.A.
MENU FPC C.B.A.
LCD MONITOR C.B.A.
FRONT C.B.A.

SERVICING FIXTURES & TOOLS

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFM3010EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	NTSC MODEL ONLY
2	VFM3110EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	PAL MODEL ONLY
3	VFM3000EDS	DV ALIGNMENT TAPE (LINEARITY)	1	
4	VFK1217	TAPE END/BEG DETECT CASSETTE	1	
8	VFK1308P	MEASURING BOARD	1	
9	VFK1309A	EVR CONNECTOR BOARD	1	
10	VFK1763	CONNECTOR ADAPTER	1	
11	VJA0941	DC CABLE	2	K2GY2DZ00003
12	VFK1317	30PIN FLAT CABLE	2	
13	VFK1164TAR43	43MM ATTACHMENT RING]	1	
14	VFK1164TCM01	COLLIMATOR SET	1	(INFINITY LENS)
15	VFK1345	CC FILTER HOLDER	1	
16	VFK1346	STEP DOWN RING	1	
17	VFK1659	STEP-UP RING	1	(43MM-49MM)
18	VFK1660	STEP-UP RING	1	(49MM-62MM)
19	VFK1341	CC FILTER (LB40)	1	NTSC MODEL ONLY
20	VFK1342	CC FILTER (LB80)	1	PAL MODEL ONLY
21	VFK1347	CC FILTER (LB120)	1	
22	VFK1884	CC FILTER (LBA2)	1	
23	VFK1888	CC FILTER (LBB6)	1	
24	VFK1885	CC FILTER (LBB2)	1	NTSC MODEL ONLY
25	VFK1886	CC FILTER (CC C10)	1	PAL MODEL ONLY
26	VFK1887	CC FILTER (CC C20)	1	PAL MODEL ONLY
27	VFK1409A	MEASURING BOARD	1	
28	VFK1899	POST DRIVER	1	
29	VFK1810	LISTA MEASURING BOARD	1	
30	VFK1186	LISTA CABLE	1	
31	VFK1300	A/D CONVERTER BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

FRAME & CASING PARTS ASSEMBLY (1)



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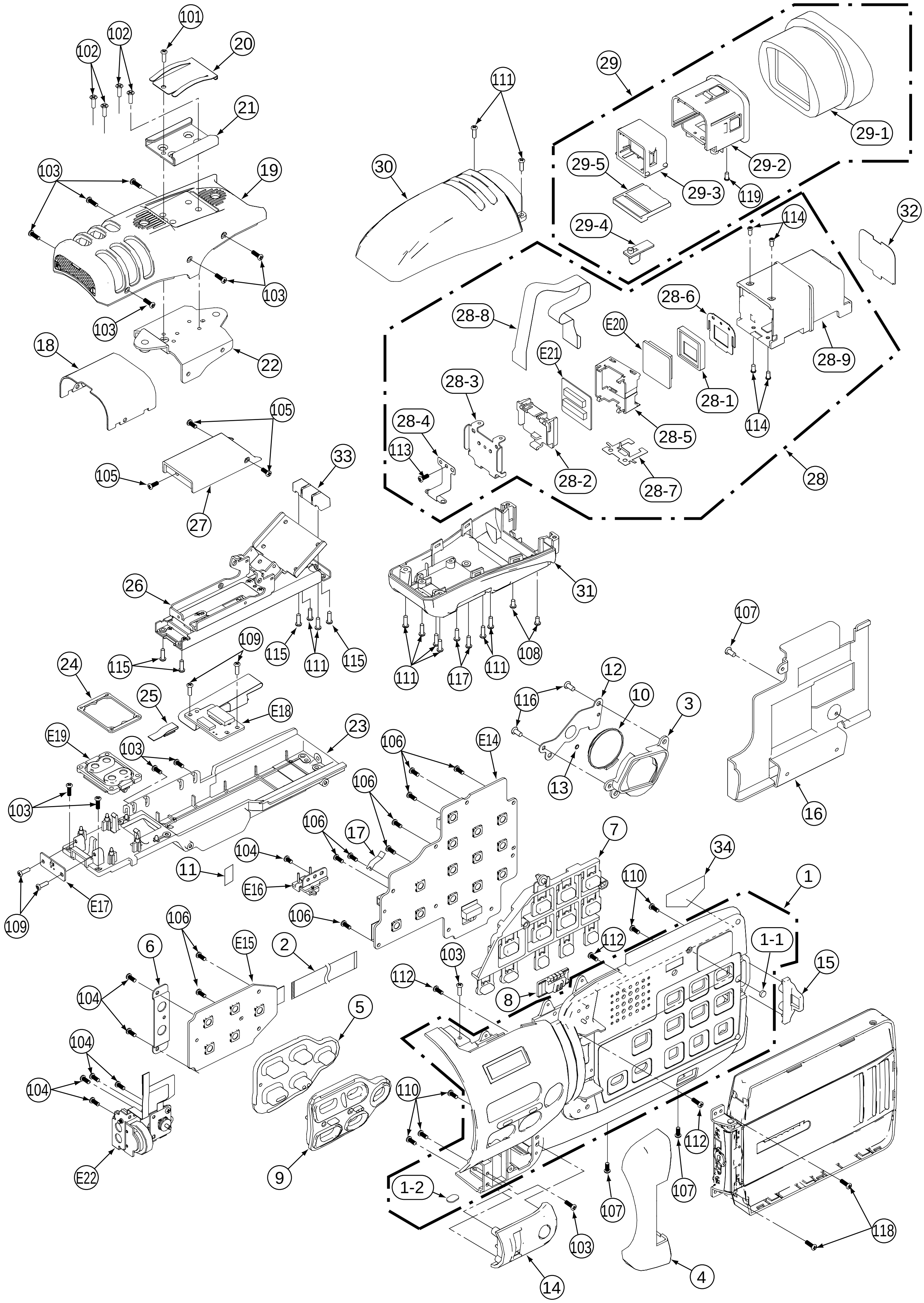
FRAME & CASING PARTS ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXW0663/S	CAMERA LENS U	1	FOR AG-DVC30P
1	VXW0665/S	CAMERA LENS U	1	FOR AG-DVC30E/32EN/33MC
1-1	VXW0664	LENS U	1	
1-2	VGQ7875	HEAT SINK	1	
2	VYK1F22	FRONT CASE 1 U	1	
3	VXP2362	MF U	1	
4	VMP8012	FRONT BASE	1	
5	VYK1F32	SIDE CASE L 1 U	1	
5-1	VGQ6966	GLIP BELT PIECE	1	
5-2	VKA0319	GLIP DUSTPROOF RUBBER (F)	1	
5-3	VMT1609	SIDE (L) GASKET	1	
6	VMP8002	SIDE JACK FRAME	1	
7	VMZ3316	MONITOR FPC PROTECT SHEET	5	
8	VEE0Z36	MINI XLR HARNESS	1	
9	VGU9630	S/S BUTTON	1	
10	VGQ7941	MIC JACK COVER	1	
11	VJF1493	SIDE JACK COVER	1	
12	VYK1F36	REAR CASE 1 U	1	
12-1	VGU9617	BATTERY LOCK BUTTON	1	
12-2	VMC1804	BATTERY LOCK SPRING	1	
12-3	VKA0340	GLIP DUSTPROOF RUBBER	1	
13	VWJ1715	REAR FPC	1	
14	VEE0Z33	BATTERY HARNESS	1	
15	K4ZZ04000032	TERMINAL	1	
16	VMP7340	DCIN ANGLE	1	
17	N9ZZ00000252	S/S U	1	
18	VKW3222	MODE PANEL LIGHT	2	
19	VJF1494	REAR JACK COVER	1	
20	VGP6061	CASETTE COVER (L)	1	
21	VFB0218	HAND STRAP	1	
22	VMP8007	GLIP BELT FIX ANGLE	1	
23	VGH4759	CASSETTE COVER WINDOW	1	FOR AG-DVC30P
23	VGH4760	CASSETTE COVER WINDOW	1	FOR AG-DVC30E/32EN/33MC
24	VGF0998	BLIND PLATE	1	
25	VMT1574	CASSETTE COVER GASKET	1	
26	VMT1610	GYRO PCB CUSHION	1	
27	VXA7822	CASSETE COVER ROCK U	1	
27-1	VMB3680	EJECT LOCK BUTTON SPRING	1	
27-2	VGQ7943	EJECT BUTTON	1	
28	VYQ3026	ZOOM SW U	1	
28-1	VGQ7942	ZOOM LEVER CASE (R)	1	
28-2	VGQ6904	ZOON LEVER CASE (L)	1	
28-3	VGQ6928	ZOOM SW HOLDER	1	
28-4	VGU9203	REC CHECK RUBBER BUTTON	1	
28-5	VGU9215	ZOOM LEVER	1	
28-6	VMB3663	COIL SPRING ZOOM	1	
28-7	VGQ6996	ZOOM HOLDER (R)	1	
28-8	VGQ6997	ZOOM SPRING HOLDER PIECE	1	
28-9	VMZ3406	ZOOM PCB BLIND SHEET	1	
29	VWJ1742	ZOOM FFC	1	
30	VGP6060	CASSETTE COVER (U)	1	
31	VXK1788	MECHA ATTACH FRAME 1 U	1	
31-1	VMG1107	MECH DUMPER RUBBER	3	
32	L2B000000001	SENSOR UNIT	1	
33	VYF2982	HOOD U	1	
34	VMP8001	LENS FRAME	1	
35	VMG1463	DUSTPROOF RUBBER	6	
36	VWJ1713	SIDE JACK FPC	1	
37	VWJ1714	EVF CN FPC	1	
38	VWJ16E5110L0	FFC CABLE	1	
39	VSC5621	CCD CON SHIELD	1	
40	VSC5622	CCD CON STOPPER	1	
41	VGQ8091	COOLING SHEET P	2	
42	VGQ8093	COOLING SHEET M	1	
43	VGQ8094	COOLING SHEET CR	1	
44	VMZ3465	CD CON CUSHION	1	
45	VKF3415	MECHA COVER (L)	1	
46	VGQ5988	EVR COVER	1	
47	VYK0Z96	LENS CAP U	1	
48	VGP6074	MECHA COVER (R)	1	
49	VGF1009	MECHA COVER SHEET	1	
50	VMD5058	TRIPOD BASE	1	
51	VXY1843	MECHA CHASSIS U	1	
51-1	VML3876	CLEANING ROLLER U	1	
51-2	VGQ7971	GARAGE COVER	1	
52	VMA0S43	CONNECTION PLATE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
101	DXYN2+J4FNNT	SCREW	1	
102	VHD1132	SCREW	4	
103	VHD1133	SCREW	3	
104	VHD1451	SCREW	2	
105	VHD1601	SCREW	4	
106	XQN16+B3FN	SCREW	25	
107	XYN2+J8	SCREW	3	
108	XQN16+B4FZ	SCREW	14	
109	XQN16+B5FZ	SCREW	2	
110	XQN16+BJ35FN	SCREW	2	
111	XQN16+BJ3FN	SCREW	2	
112	XQN16+BJ3FZ	SCREW	3	
113	XQN16+BJ4FN	SCREW	13	
114	XQN16+BJ4FZ	SCREW	8	
115	XQN16+BJ6FZ	SCREW	2	
116	XQN2+B4FZ	SCREW	2	
117	XTB26+6GFZ	SCREW	1	
118	XQN14+B25	SCREW	2	
119	XQN16+B22FZ	SCREW	2	
120	XQN16+CJ4	SCREW	1	
E1	VEP01952A	POWER C.B.A.	1	
E2	VEP03G60A	VTR C.B.A.	1	FOR AG-DVC30P
E2	VEP03G60B	VTR C.B.A.	1	FOR AG-DVC30E/32EN/33MC
E3	VEP23598A	CAMERA C.B.A.	1	FOR AG-DVC30P
E3	VEP23598B	CAMERA C.B.A.	1	FOR AG-DVC30E/32EN/33MC
E4	VEP06F67A	FRONT C.B.A.	1	
E5	VEP04861A	SIDE JACK FLEX C.B.A.	1	
E6	VEP001G1A	SUB REC C.B.A.	1	
E7	VEP01957A	DC IN C.B.A.	1	
E8	VEP01953A	BATTERY C.B.A.	1	
E9	VEP06F66A	ZOOM FLEX C.B.A.	1	
E10	VEP001E3A	ZOOM CON C.B.A.	1	
E11	VEP001E5A	CAS OPEN C.B.A.	1	
E12	VEP04863A	REAR JACK C.B.A.	1	
E13	VEP001E8A	R-SIDE FLEX C.B.A.	1	

FRAME & CASING PARTS ASSEMBLY (2)



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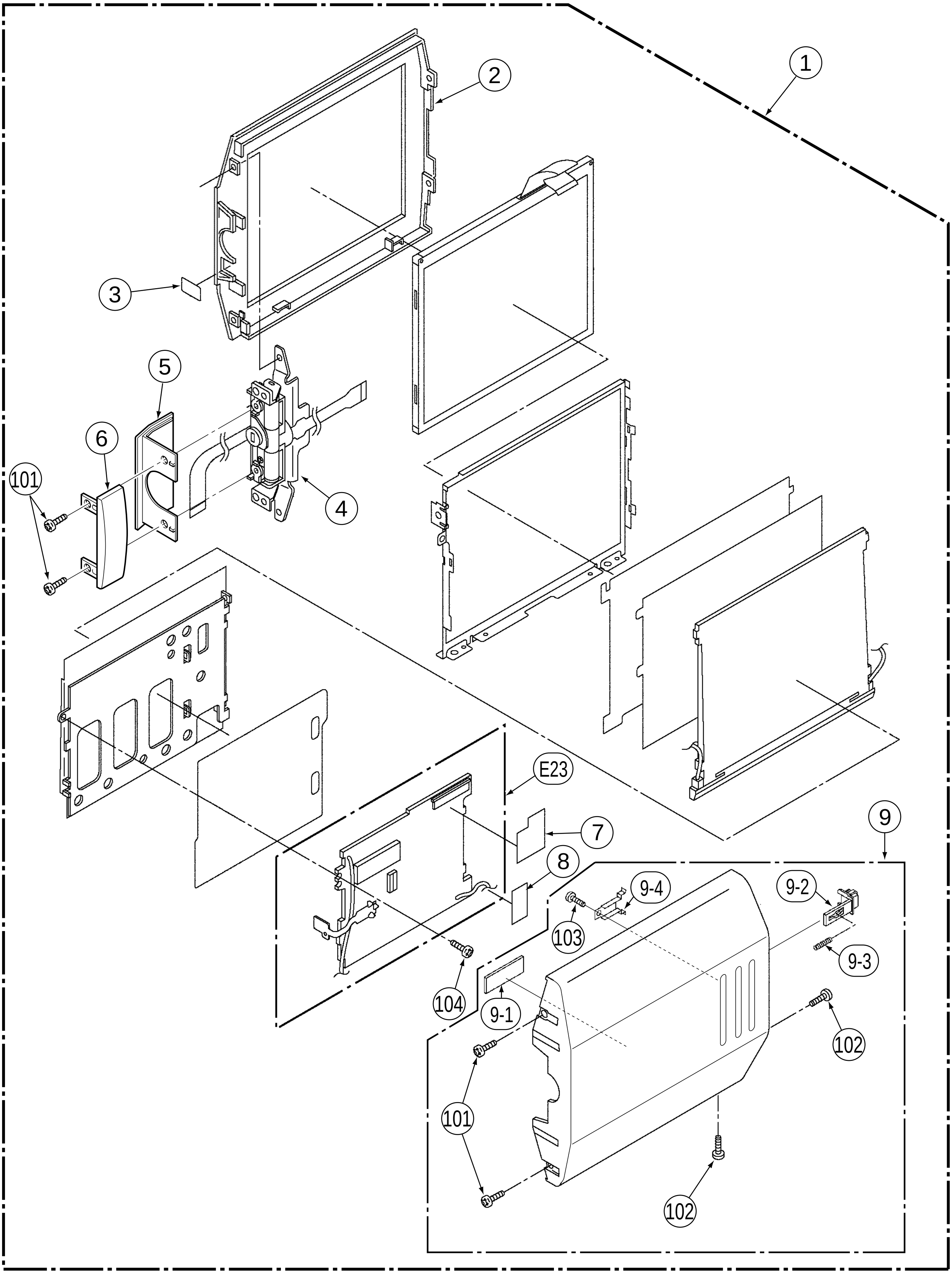
FRAME & CASING PARTS ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1F30	SIDE CASE R 1 U	1	
1-1	VMT1547	LCD CUSHION	1	
1-2	VKA0319	GLIP DUSTPROOF RUBBER (F)	1	
2	VWJ16E5080L0	FLAT CABLE	1	
3	VGQ6897	SPEAKER HOLDER	1	
4	VGP6064	HINGE COVER	1	
5	VGU9618	CAM BUTTON	1	
6	VMP8019	CAMERA PCB FRAME	1	
7	VGU9619	VTR BUTTON	1	
8	VGU9620	A/M KNOB	1	
9	VGQ7939	CAM BUTTON HOLDER	1	
10	VEK9842	SPEAKER ASS'Y	1	
11	VMZ3316	MONITOR FPC PROTECT SHEET	1	
12	VMP7330	SPEAKER HOLDER ANGLE	1	
13	VMT1347	SPEAKER HOLDER CUSHION	1	
14	VYP8947	MENU PANEL U	1	
15	VGQ7940	LCD LOCK BASE	1	
16	VSC5625	HEAT SINK (SIDE R)	1	
17	VMC1936	KNOB HOLD FRAME	1	
18	VYQ3027	MIC NET U	1	
19	VYK1F42	MIC CASE 1 U	1	
20	VMC1931	SPRING	1	
21	VJF1504	SHOE	1	
22	VMP8023	SHOE HOLD ANGLE	1	
23	VYK1F34	TOP CASE 1 U	1	
24	VGQ6352	DUMPER HOLDER PIECE	1	
25	VWJ07E5030L0	FFC CABLE	1	
26	VXA7804	EVF SLIDE U	1	
27	VKF3890	EVF SLIDE COVER	1	
28	VYQ3024	EVF LCD HOLDER U	1	
28-1	L5BDDXE00001	ACTIVE MATRIX LCD PANEL	1	
28-2	VGQ6927	EVF COVER	1	
28-3	VMP7360	EVF COVER ANGLE	1	
28-4	VMC1919	EVF EARTH SPRING	1	
28-5	VMX2967	PB SPACER	1	
28-6	VGQ7088	LCD MASK	1	
28-7	VMC1612	EVF EARTH SPRING	1	
28-8	VWJ1716	EVF FPC	1	
28-9	VGQ7947	EVF LCD CASE	1	
29	VYK8120	EYE CAP HOLDER U	1	
29-1	VMG1100	EYE CAP	1	
29-2	VGQ4586	EYE CAP HOLDER	1	
29-3	VYQ1445	LENS HOLDER	1	
29-4	VGU7612	EYE SIGHT KNOB	1	
29-5	VGQ4588	KNOB GUIDE	1	
30	VYK1F24	EVF TOP CASE U	1	
31	VGP6063	EVF CASE (UNDER)	1	
32	VGQ7948	EVF LCD FILTER	1	
33	VGF1001	TOP BLINDFOLD PIECE	1	
34	VGQ8092	COOLING SHEET R	1	
101	DXSN2+4FCNT	SCREW	1	
102	DXSS2+5FZNT	SCREW	4	
103	XQN16+B5FZ	SCREW	12	
104	XQN16+B3FN	SCREW	7	
105	XQN16+B3FZ	SCREW	3	
106	XQN16+B4FN	SCREW	10	
107	XQN16+B4FZ	SCREW	3	
108	XQN16+BJ3FZ	SCREW	2	
109	XQN16+BJ4FN	SCREW	4	
110	XQN16+BJ4FZ	SCREW	5	
111	XQN16+BJ5FZ	SCREW	10	
112	XQN16+BJ6FZ	SCREW	4	
113	XQN16+C25FZ	SCREW	1	
114	XQN16+C3	SCREW	4	
115	XQN2+A5FZ	SCREW	4	
116	XQN2+C5	SCREW	2	
117	XQS16+AJ5FZ	SCREW	2	
118	XYN2+C5	SCREW	2	
119	XQN16+BJ3FN	SCREW	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E14	VEP06F68A	R-SIDE C.B.A.	1	
E15	VEP06F64A	CAMERA OP C.B.A.	1	
E16	VEP001E1A	LCD OPEN C.B.A.	1	
E17	VEP001E4A	TALLY C.B.A.	1	
E18	VEP001E0A	EVF CON C.B.A.	1	
E19	VEP04828A	MIC C.B.A.	1	
E20	VEP28272B	EVF A C.B.A.	1	
E21	VEP28275B	EVF B C.B.A.	1	
E22	VEP001G2A	MENU FLEX C.B.A.	1	

LCD PARTS ASSEMBLY


1
2
3
5
6
101
4
E23
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9
8
9-4
9-2
103
9-3
104
9-1
102
101
102

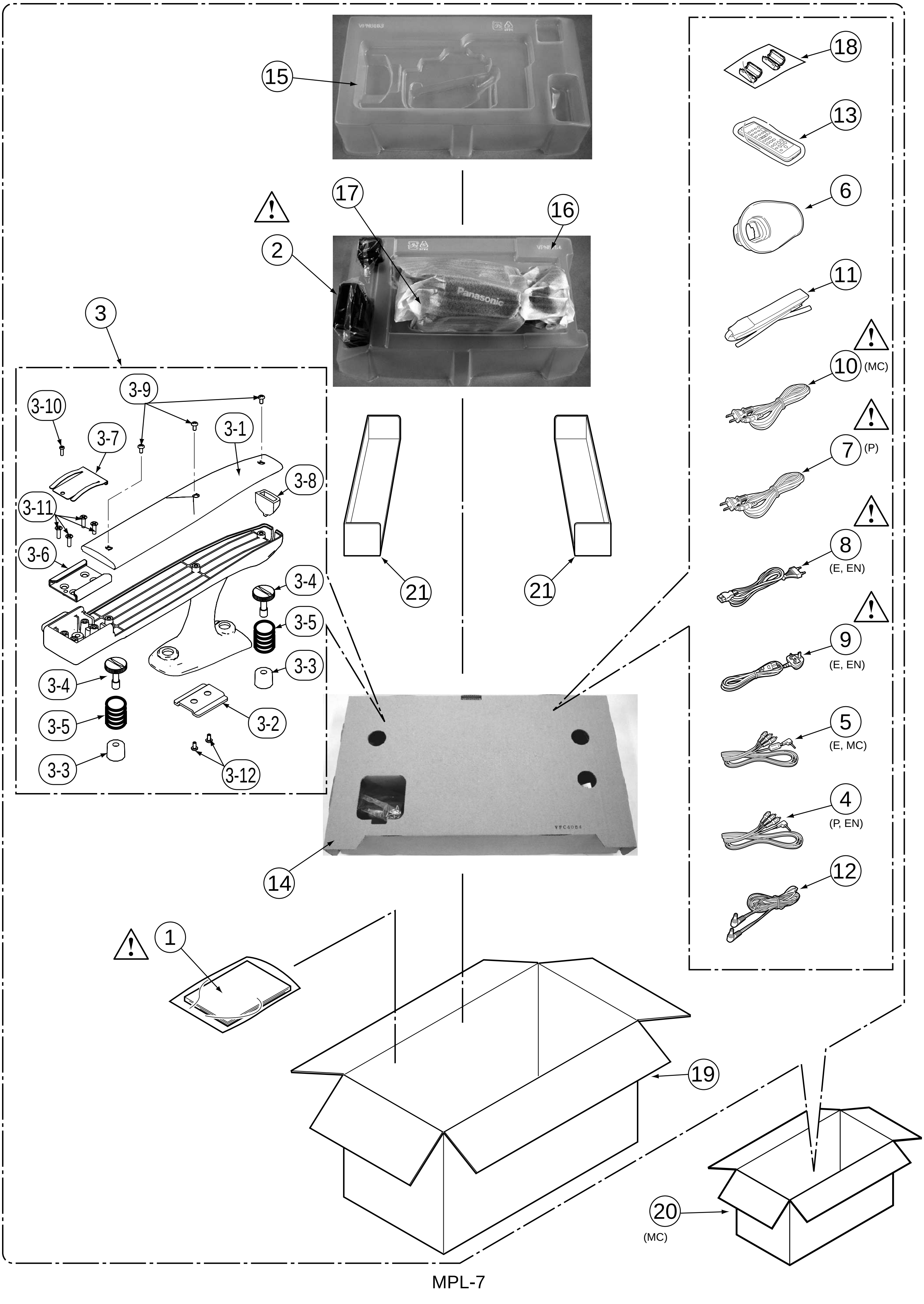
LCD PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1F09S	LCD U	1	FOR AG-DVC30P/E
1	VYK1J18	LCD U	1	FOR AG-DVC32EN
1	VYK1F19S	LCD U	1	FOR AG-DVC33MC
2	VKM6484	LCD CASE (BOTTOM)	1	
3	VGQ4758	BLIND SHEET (A)	1	
4	VXD0424S	LCD HINGE U	1	
5	VGQ7950	HINGE CASE (BOTTOM)	1	
6	VGQ7949	HINGE CASE (TOP)	1	
7	VGQ6644	BARRIER (LCD)	1	
8	VGQ6286	LCD BARRIER	1	
9	VYK1F27S	LCD CASE (TOP) U	1	FOR AG-DVC30P/E
9	VYK1J19	LCD CASE (TOP) U	1	FOR AG-DVC32EN
9	VYK1F28S	LCD CASE (TOP) U	1	FOR AG-DVC33MC
9-1	VGQ6290	LCD CUSHION	1	
9-2	VGQ7951	LCD LOCK PIECE	1	
9-3	VMB3217	LCD LOCK SPRING	1	
9-4	VMP6292	LOCK PIECE FIX ANGLE	1	
101	VHD1451	SCREW	4	
102	XQN16+B25FN	SCREW	2	
103	XQS16+AJ3	SCREW	1	
104	XQN16+B2FN	SCREW	1	
E23	VEP26257B	MONITOR C.B.A.	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.


15
17
16
2
3
3-9
3-10
3-1
3-7
3-8
3-11
3-6
3-4
3-5
3-3
3-4
3-2
3-5
3-3
3-12
21
21
14
1
19
20
(MC)
18
13
6
11
10
(MC)
7
(P)
8
(E, EN)
9
(E, EN)
5
(E, MC)
4
(P, EN)
12

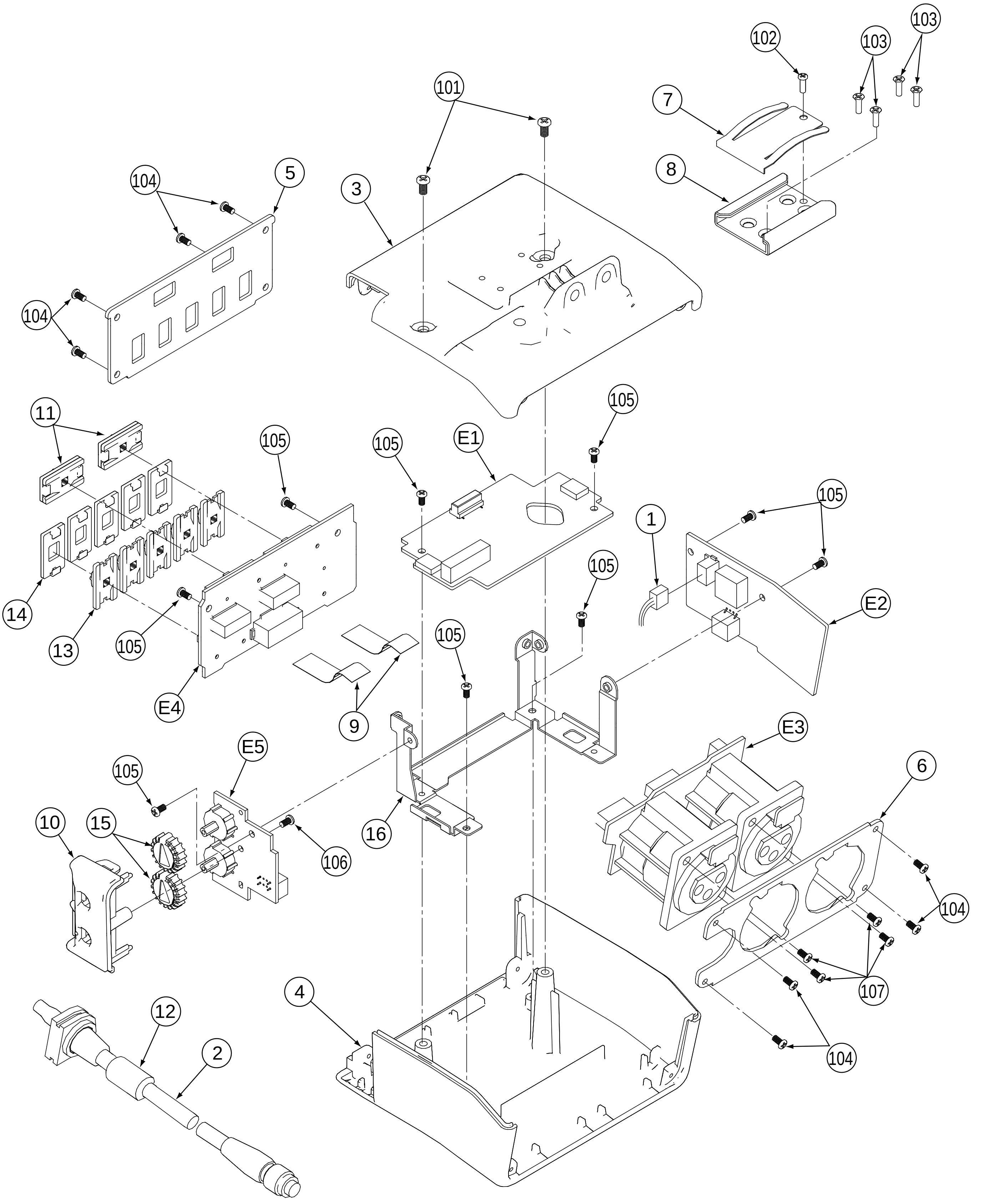
PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VQT0J25	OPERATING INSTRUCTIONS	1	FOR AG-DVC30P
⚠ 1	VQT0J26	OPERATING INSTRUCTIONS	1	FOR AG-DVC30E
⚠ 1	VQT0L09	OPERATING INSTRUCTIONS	1	FOR AG-DVC32EN
⚠ 1	VQT0J27	OPERATING INSTRUCTIONS	1	FOR AG-DVC33MC
⚠ 2	DE-852DB	AC ADAPTOR	1	FOR AG-DVC30P
⚠ 2	DE-811DB	AC ADAPTOR	1	FOR AG-DVC30E/32EN
⚠ 2	DE-811FB	AC ADAPTOR	1	FOR AG-DVC33MC
3	VYH0312	HANDLE U	1	
3-1	VGQ7970	HANDLE COVER	1	
3-2	VGM2084	HANDLE SPACER	1	
3-3	VMG1627	HANDLE HOLD RUBBER	2	
3-4	VHD1661	HANDLE HOLD SCREW	2	
3-5	VMB3894	HANDLE SCREW FLAT SPRING	2	
3-6	VJF1504	SHOE	1	
3-7	VMC1931	SPRING	1	
3-8	VMG1628	HANDLE CUSHION RUBBER	1	
3-9	XQN2+A5FZ	SCREW	3	
3-10	DXSN2+4FCNT	SCREW	1	
3-11	DXSS2+4FZNT	SCREW	4	
3-12	DXSS3+6FZNT	SCREW	2	
4	K2KC4CB00009	AV CABLE	1	FOR AG-DVC30P/32EN
5	VYC0922	AV CABLE	1	FOR AG-DVC30E/33MC
6	VMG1370	EYE CAP	1	
⚠ 7	K2CB2CB00006	POWER CORD	1	FOR AG-DVC30P
⚠ 8	K2CR2DA00005	POWER CORD	1	FOR AG-DVC30E/32EN
⚠ 9	K2CT3DA00001	POWER CORD	1	FOR AG-DVC30E/32EN
⚠ 10	K2CA2DA00030	POWER CORD	1	FOR AG-DVC33MC
11	VFC3891	SHOULDER BELT	1	
12	K2GJ2DC00002	DC CORD	1	
13	VFA0402	WIRELESS REMOTE CONTROL	1	
14	VPG0Y21	ACCESSORY BOX	1	
15	VPN6164	CUSHION (B)	1	
16	VPN6163	CUSHION (T)	1	
17	VPF1218	PROTECTION BAG	1	
18	J0KG00000013	CORE	2	FOR AG-DVC30E/32EN/33MC
19	VPG0Y08	PACKING CASE (P) B	1	FOR AG-DVC30P
19	VPG0Y09	PACKING CASE (P) B	1	FOR AG-DVC30E
19	VPG0Z57	PACKING CASE (P) B	1	FOR AG-DVC32EN
19	VPG0Y11	PACKING CASE (P) B (IN)	1	FOR AG-DVC33MC
20	VPG0Y10	PACKING CASE (OUT)	1	FOR AG-DVC33MC
21	VPN6237	PARTITION PLATE	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

CABINET PARTS ASSEMBLY (AG-MYA30G)


103
102
103
101
7
8
104
5
3
104
11
105
105
E1
105
105
1
105
E2
14
13
105
E4
9
105
E3
E5
6
105
10
15
16
106
104
107
4
12
2
104

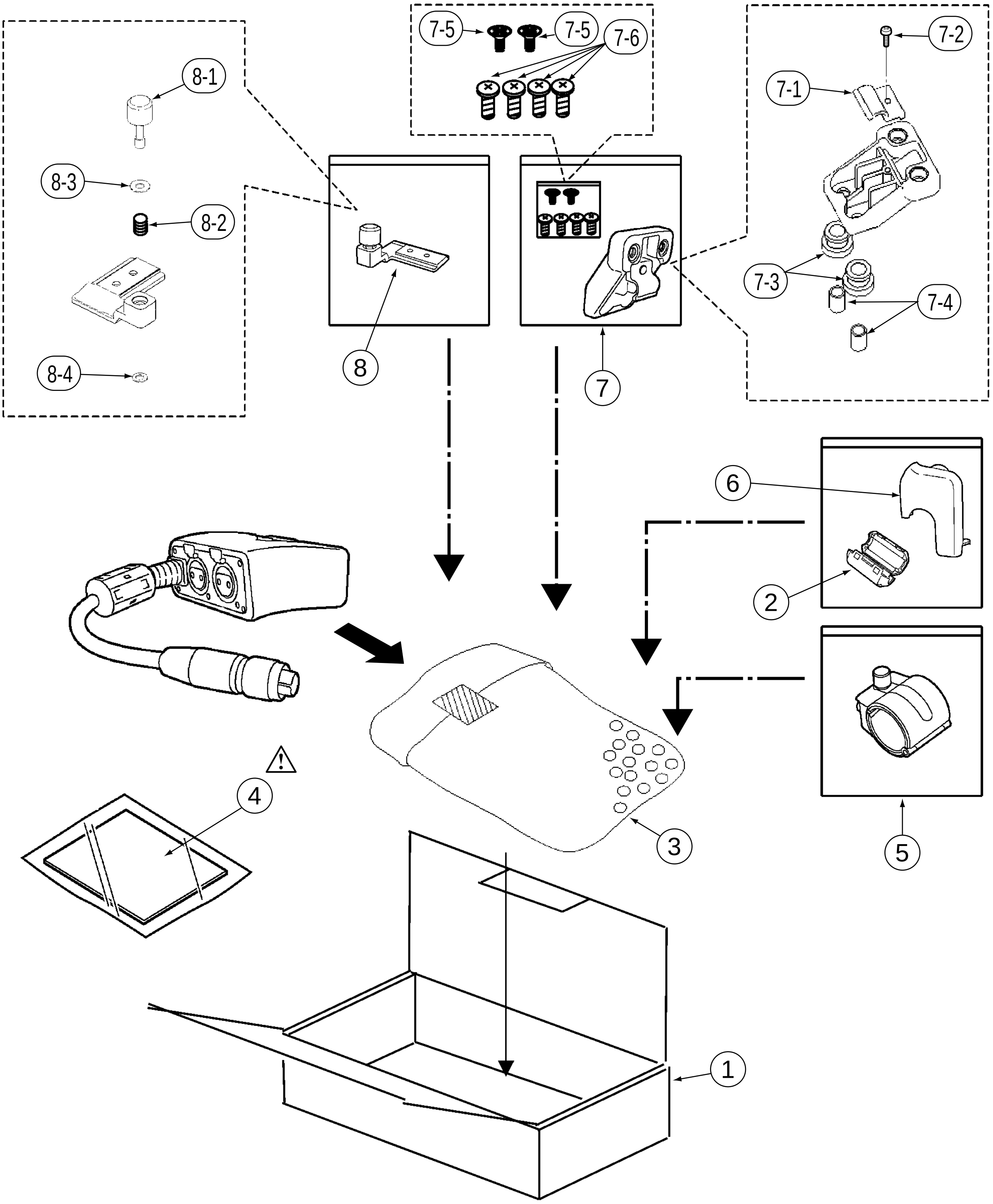
CABINET PARTS ASSEMBLY (AG-MYA30G)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VEE0Z45	POWER CABLE	1	
2	VEC0993	MINI XLR CABLE	1	
3	VGM2081	XLR BOX TOP-CASE	1	
4	VGM2082	XLR BOX BOTTOM CASE	1	
5	VMP8010	SLIDE SW NAME PLATE	1	
6	VMP8011	XLR NAME PLATE	1	
7	VMC1931	SPRING	1	
8	VJF1504	SHOE	1	
9	VWJ13E5045L0	FLEXIBLE CABLE	2	
10	VGQ8088	VR COVER	1	
11	VYQ3166	SLIDE TSUMAMI (L)U	2	
12	J0KG00000046	FERRITE CORE	1	
13	VGU9214	SLIDE KNOB	5	
14	VMG1460	SLIDE SW RUBBER COVER	5	
15	VGU9641	AUDIO VR KNOB	2	
16	VMP8039	BOX PCB ANGLE	1	
101	XQN26+A5FZ	SCREW	2	
102	XQN2+C2FN	SCREW	1	
103	XSS2+4FZ	SCREW	4	
104	XQN16+B3FZ	SCREW	8	
105	XQN16+B25FN	SCREW	9	
106	XQN16+BJ4FN	SCREW	1	
107	XYN26+A6FZ	SCREW	4	
E1	VEP04875A	MAIN C.B.A.	1	
E2	VEP01956A	POWER C.B.A.	1	
E3	VEP04869A	XLR C.B.A.	1	
E4	VEP04870A	SW C.B.A.	1	
E5	VEP04871A	VR C.B.A.	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AG-MYA30G)

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.


7-5
7-5
7-6
7-2
7-1
8-1
8-3
8-2
7-3
7-4
8-4
8
7
6
2
⚠
4
3
5
1

PACKING PARTS ASSEMBLY (AG-MYA30G)

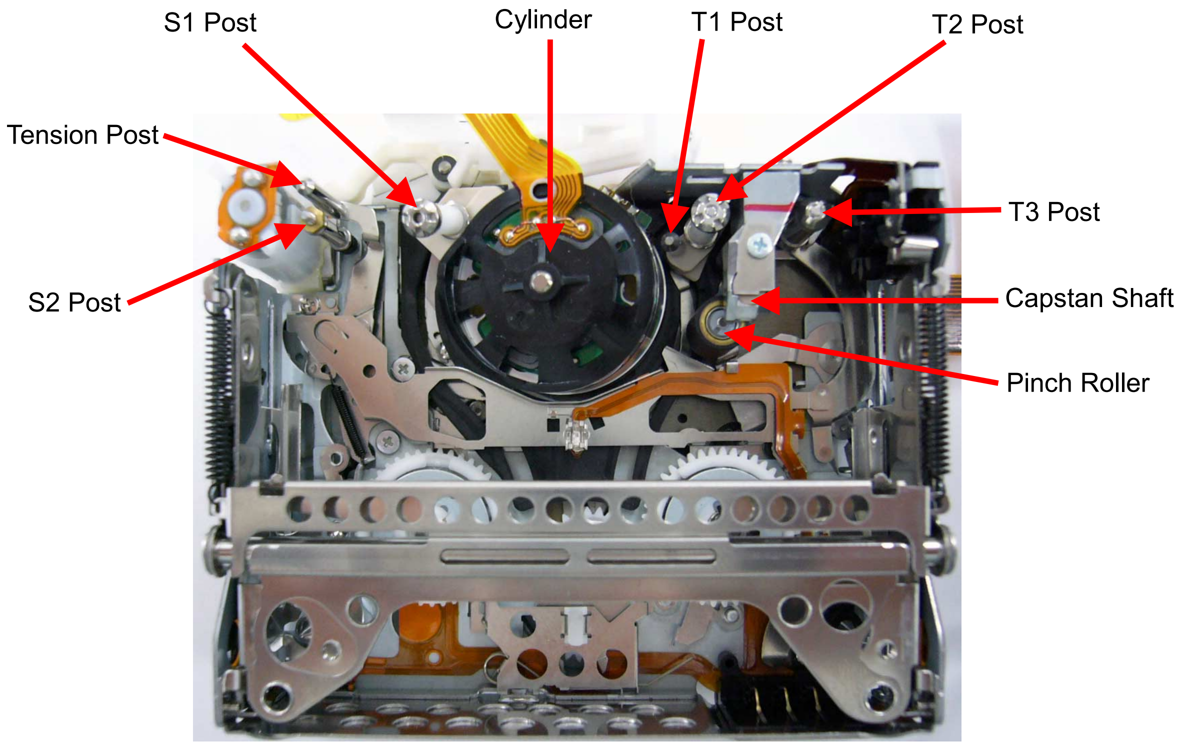
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG0Z18	PACING CASE	1	
2	J0KG00000046	FERRITE CORE	1	
3	VPF1219	CUSHION BAG	1	
⚠ 4	VQT0K50	OPERATING INSTRUCTIONS	1	
5	VYC0870	MIC HOLDER U	1	
6	VJF1497	SIDE JACK COVER(XLR)	1	
7	VYC0920	MIC ADAPTOR U	1	
7-1	VJF0804	CABLE CLAMPER	1	
7-2	XQN2+CJ6FZ	SCREW	1	
7-3	VMG1189	RUBBER BUSH	2	
7-4	VMX2835	SPACER	2	
7-5	XSS3+6FZ	SCREW	2	
7-6	XSB4+12FXKS	SCREW	4	
8	VYQ3157	BOX HOLD ANGLE U	1	
8-1	VHD1669	BOX HOLD SCREW	1	
8-2	VMB3900	BOX SCREW SPRING	1	
8-3	VMX3416	HOLD ANGLE WASSYA UPEER	1	
8-4	VMX3417	HOLD ANGLE WASSYA LOWER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

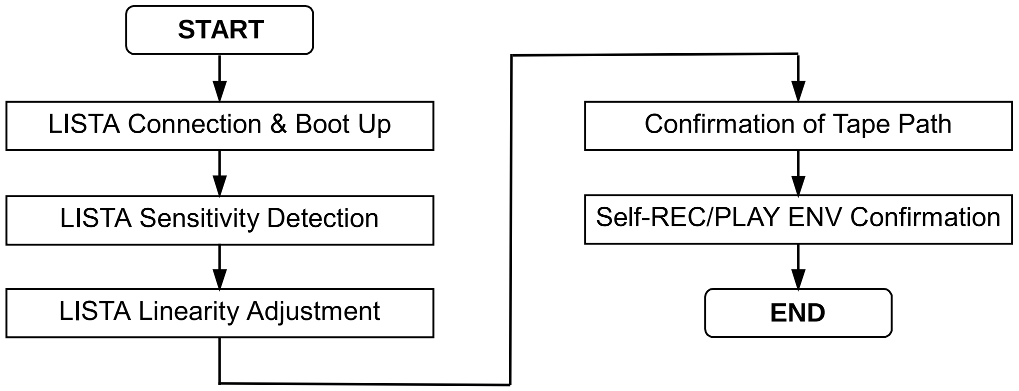
1. MECHANICAL ADJUSTMENT AND CONFIRMATION

1-1. Name of Tape Transportation


S1 Post
Cylinder
T1 Post
T2 Post
Tension Post
T3 Post
S2 Post
Capstan Shaft
Pinch Roller

LOADING condition

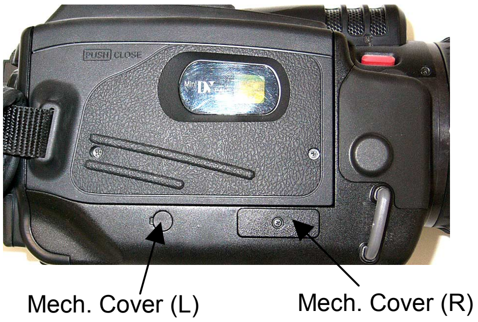
1-2. Tape Path Adjustment Procedure


START
LISTA Connection & Boot Up
LISTA Sensitivity Detection
LISTA Linearity Adjustment
Confirmation of Tape Path
Self-REC/PLAY ENV Confirmation
END

1-3. Adjustment of S1 & T2 Post

LISTA linearity and Envelope waveform are adjusted by S1 and T2 post. When removing the Mech. Cover (R) and (L), which is shown in the following figure, without opening a cassette cover, it is possible to do an adjustment.

Mech. Cover (R) side: S1 Post
Mech. Cover (L) side: T2 Post


Mech. Cover (L)
Mech. Cover (R)

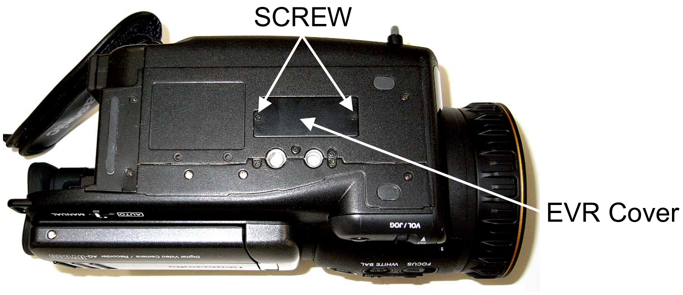
1-4. Connection of EVR Tools

To performing the confirmation of envelope (item “1-11. Self-REC/PLAY Envelope Confirmation”), the following tools are required.

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	**NOTE:** VFK1309 also can be use
Connection Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	
DC Cable	VJA1128 or LSJA0310	1	For Unit
DC Cable	VJA0941	1	For Measuring Board
AC Adapter	-----	2	

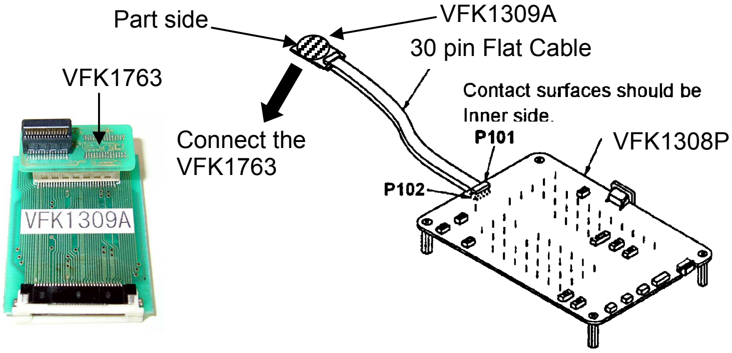
To confirm the envelope output, connect the Connection and Measuring Boards as described below.

1. Unscrew 2 screws and remove the EVR cover.


SCREW
EVR Cover

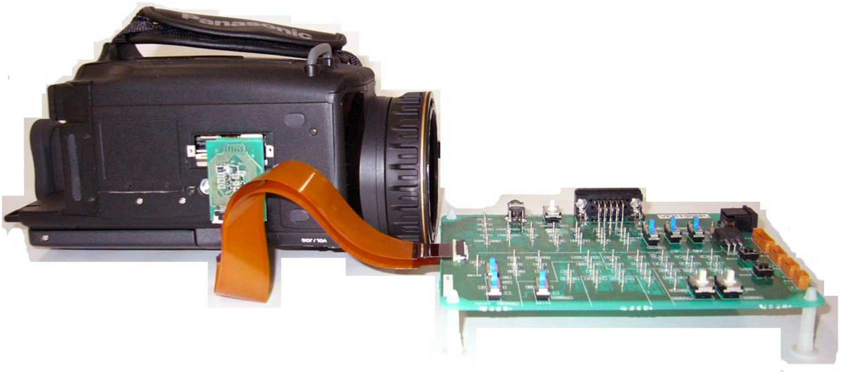
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figure. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
The unit will not work if the connector is attached backwards.


Part side
VFK1309A
30 pin Flat Cable
VFK1763
Contact surfaces should be Inner side.
Connect the VFK1763
P101
VFK1308P
P102
VFK1309A

3. Connect the Connection Adapter (VFK1763) to EVR connector in Unit. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

When the VFK1763 is connected the EVR connector, be careful that VFK1309A is attached in the right direction.



1-5. Connection of LISTA Adjustment System

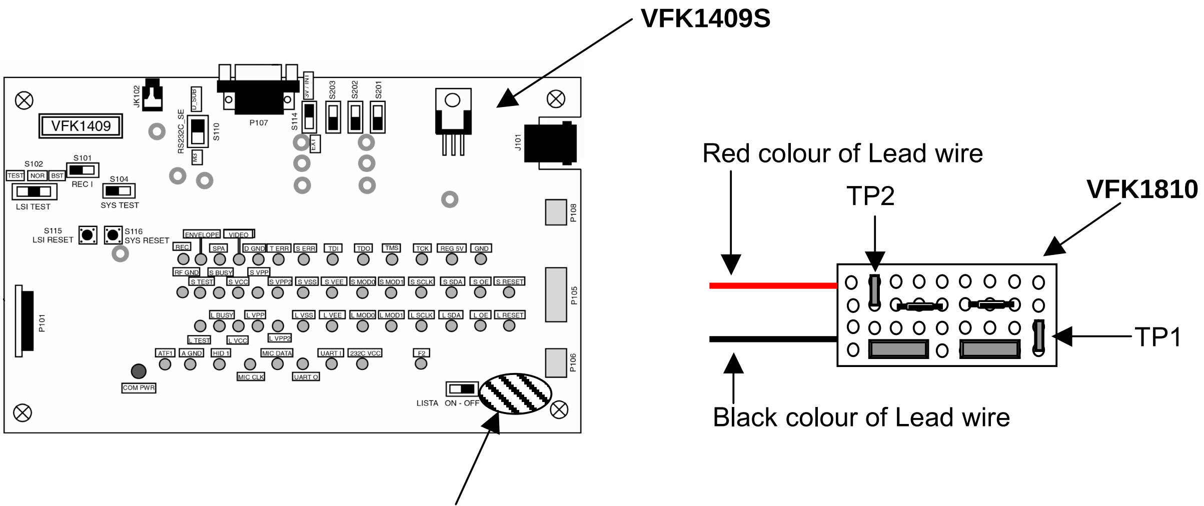
TAPE	VFM3000EDS (DV LISTA)
M. EQ	Personal Computer (A/D Board should be installed.)
TOOL	VFK1481K (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board), VFK1308P (Measuring Board), VFK1409A (Measuring Board) ← **NOTE 2** VFK1317 (30P flat cable): 2pcs, VFK1309A (EVR connector board) ← **NOTE 1** VFK1763 (Connection Adapter), VJA0941 (DC cable): 2pcs, 9P RS232C cross cable.
TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)

NOTE 1:

VFK1309 and VFK1309A can be used to perform LISTA adjustment. The VFK1309A is only required for LCD adjustment (refer to item 1 of Electrical adjustment procedure in section 4.)

NOTE 2:

If you already have VFK1409S (Measuring board), it can be used to perform LISTA adjustment with VFK1810. Please refer to next explanation for installation of VFK1409S.


VFK1409S
VFK1409
Red colour of Lead wire
TP2
VFK1810
TP1
Black colour of Lead wire
S102
S101
REC I
S104
LSI TEST
SYS TEST
S115
LSI RESET
S116
SYS RESET
P107
J101
P108
P105
P106
P101
S110
S114
S203
S202
S201
COM PWR
LISTA ON - OFF

1. Install the two test points of VFK1810 to through hole in this area and solder it at test point at foil side of VFK1409S to fixed VFK1810.

2. Insert the two lead wires of VFK1810 to through hole.

3. Solder the red color of lead wire to pin1 of P108 on foil side on VFK1409S.

4. Solder the black color of lead wire to pin3 of P106 on foil side on VFK1409S.

1. Set the switches on the Measuring Board as shown below.

<VFK1308P>

SW NAME& No.	Setting Position
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	L
BST TEST (SW104)	NORMAL
SW105	H
SW106	OFF
SW107	CENTER position
SW108	H
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

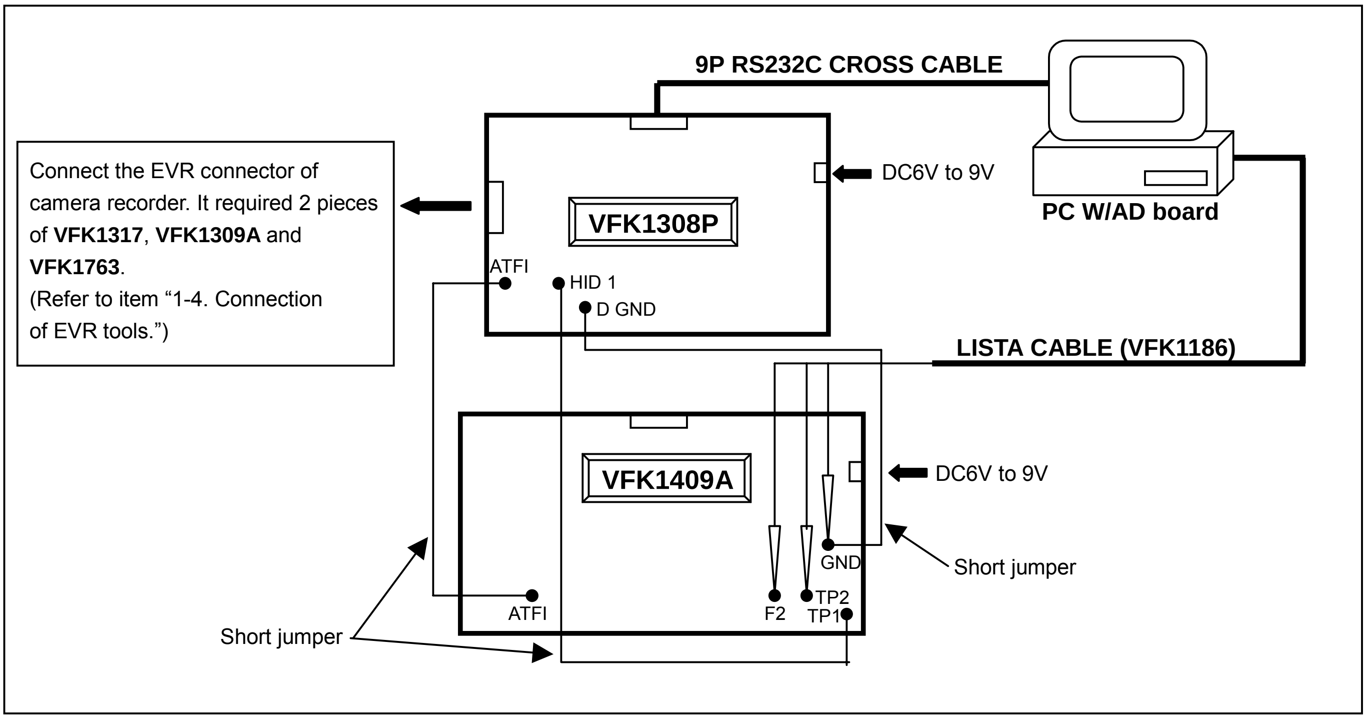
<VFK1409S or VFK1409A>

SW NAME& No.	Setting Position
RS232C SEL (S110)	D-SUB
REC I (S101)	NOR
LSI TEST (S102)	NOR
S104	NOR
S114	EXT
S201	Right side
S202	Right side
S203	Right side
LISTA ON-OFF	ON

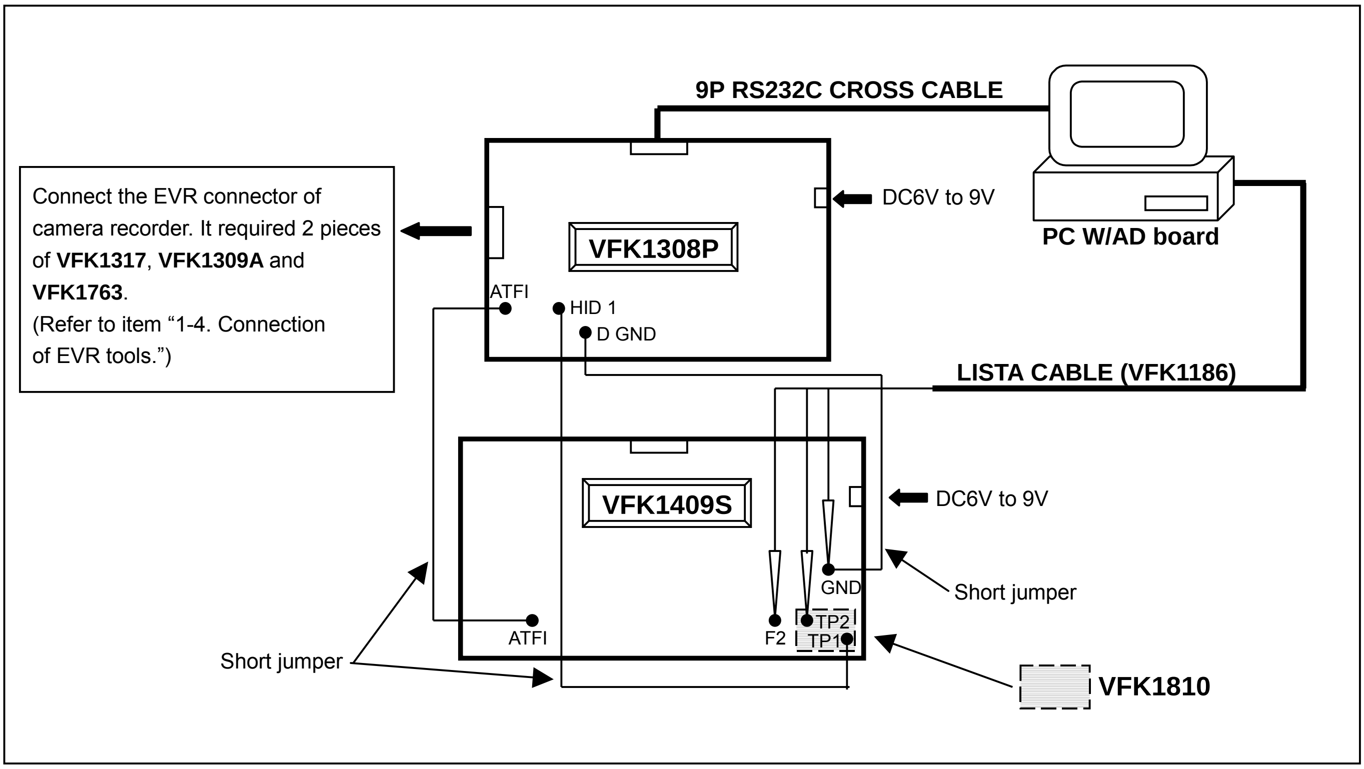
2. Connect a PC, the Measuring Board and the camera recorder as shown below.

<CONNECTION>

1) In case of use VFK1409A


9P RS232C CROSS CABLE
Connect the EVR connector of camera recorder. It required 2 pieces of **VFK1317**, **VFK1309A** and **VFK1763**. (Refer to item "1-4. Connection of EVR tools.")
VFK1308P
DC6V to 9V
PC W/AD board
ATFI
HID 1
D GND
LISTA CABLE (VFK1186)
VFK1409A
DC6V to 9V
GND
Short jumper
TP2
ATFI
F2
TP1
Short jumper

2) In case of use VFK1409S


9P RS232C CROSS CABLE
Connect the EVR connector of camera recorder. It required 2 pieces of **VFK1317**, **VFK1309A** and **VFK1763**. (Refer to item "1-4. Connection of EVR tools.")
VFK1308P
DC6V to 9V
PC W/AD board
ATFI
HID 1
D GND
LISTA CABLE (VFK1186)
VFK1409S
DC6V to 9V
GND
Short jumper
TP2
ATFI
F2
TP1
Short jumper
VFK1810

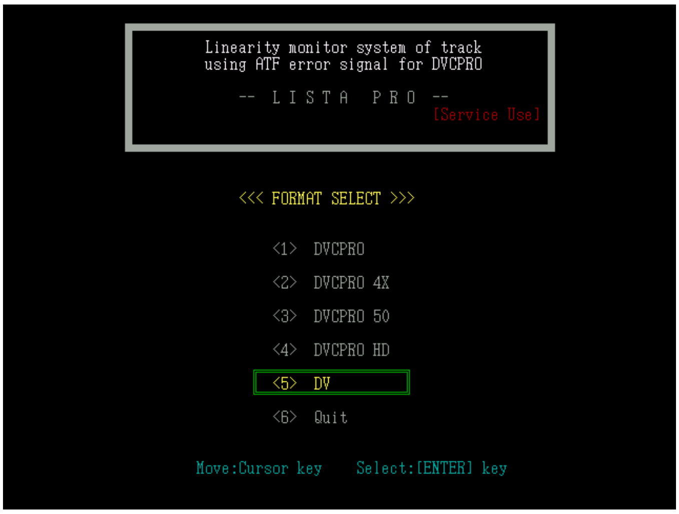
3. Connect the clips of the LISTA cable to test point on the Measuring Board. (Refer to Items **"Sensitivity Detection"** and **"Linearity Adjustment"**.)

1-6. Boot up the LISTA Software

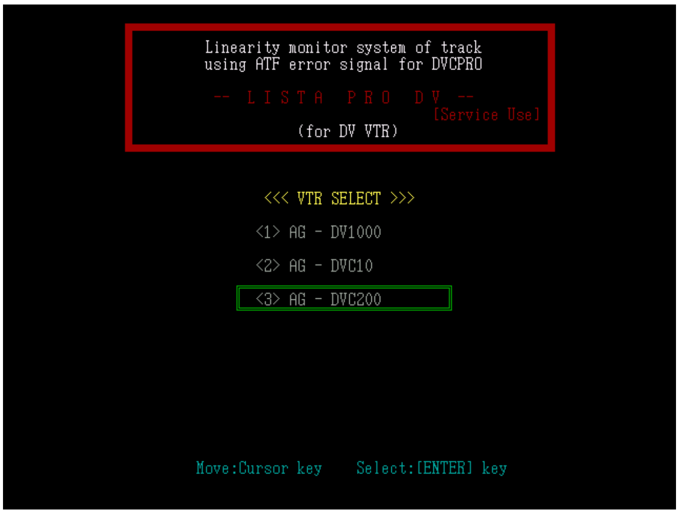
1. Boot up the LISTA software on DOS mode.

< How to Install and Boot Up >
Make a directory like C: LISTA and copy all files in the VFK1481K(LISTA Software) to it on PC.
Type **"LISTA"** and press **ENTER** key, then boot up the LISTA software VFK1481K.

2. After boot up the LISTA software, **<<< FORMAT SELECT >>>** display appears. Select the item **"DV"**.
After select the format, **<<< VTR SELECT >>>** display appears, and select the model **"AG-DVC200"**.



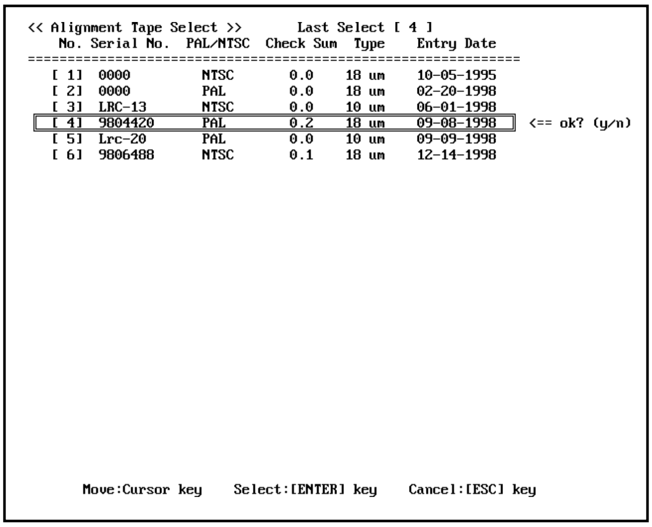
```
Linearity monitor system of track
using ATF error signal for DVCPRO

-- L I S T A   P R O --
                      [Service Use]

<<< FORMAT SELECT >>>

<1>  DVCPRO
<2>  DVCPRO 4X
<3>  DVCPRO 50
<4>  DVCPRO HD
<5>  DV
<6>  Quit

Move:Cursor key     Select:[ENTER] key
```



```
Linearity monitor system of track
using ATF error signal for DVCPRO

-- L I S T A   P R O   D V --
                      [Service Use]
          (for DV VTR)

<<< VTR SELECT >>>
<1> AG - DV1000
<2> AG - DVC10
<3> AG - DVC200

Move:Cursor key     Select:[ENTER] key
```

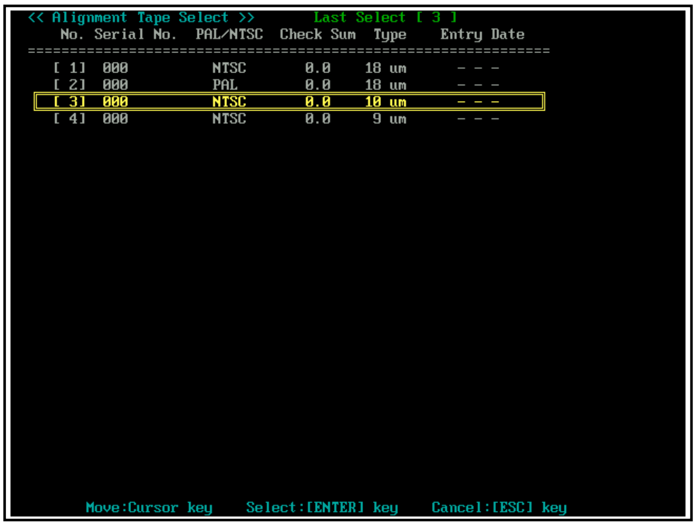
3. Next, select the Serial number of the Alignment tape on the screen. In case of LISTA software is not entered with data of alignment tape, press the ESC key, then main menu is displayed on the screen. And select the item **"<4> Alignment Tape"** for entry the data on the attachment sheet, which is enclosed with alignment tape.
4. In case of LISTA software has entered data of alignment tape, select the serial number of Alignment tape, then message appears **"ok? (y/n)"** on the screen. And press **" Y "** or **" ENTER "** key, then LISTA main menu is displayed on screen.

< In case of Alignment Tape entered already >



```
<< Alignment Tape Select >>       Last Select [ 4 ]
    No. Serial No.  PAL/NTSC  Check Sum  Type     Entry Date
=============================================================
   [ 1]  0000         NTSC       0.0     18 um    10-05-1995
   [ 2]  0000         PAL        0.0     18 um    02-20-1998
   [ 3]  LRC-13       NTSC       0.0     10 um    06-01-1998
   [ 4]  9804420      PAL        0.2     18 um    09-08-1998   <== ok? (y/n)
   [ 5]  Lrc-20       PAL        0.0     10 um    09-09-1998
   [ 6]  9806488      NTSC       0.1     18 um    12-14-1998

        Move:Cursor key     Select:[ENTER] key     Cancel:[ESC] key
```

< In case of Alignment Tape does not entered >



```
<< Alignment Tape Select >>       Last Select [ 3 ]
    No. Serial No.  PAL/NTSC  Check Sum  Type     Entry Date
=============================================================
   [ 1]  000          NTSC       0.0     18 um     - - -
   [ 2]  000          PAL        0.0     18 um     - - -
   [ 3]  000          NTSC       0.0     10 um     - - -
   [ 4]  000          NTSC       0.0      9 um     - - -

        Move:Cursor key     Select:[ENTER] key     Cancel:[ESC] key
```

1-7. How to Enter the Alignment Tape Data

1. Select the item **“<4> Alignment Tape”** on the LISTA main menu.
2. Select the item **“<2> ENTRY”** on the alignment menu.
3. After the screen displays the screen of **<<Alignment Tape Data Entry>>**, first input the Serial Number follow the printed number on the tape label. And input the number **“0”** or **“1”** for selected the PAL/NTSC. And after that enter the tape type, input **“0”** for DVCPRO, input **“1”** for DV or input **“2”** for HDLP.
4. After selecting the tape type, the frame for inputting the DATA and CHECK SUM appears on the screen. Input the numerical value in numerical order on the data sheet, which is enclosed with alignment tape. If the wrong number is inputted, the error message on the screen, then confirm that data on the sheet.
5. After the data entry, the screen returns to **“LISTA MAIN”** menu. Confirm the serial number of the alignment tape.

<< Alignment Tape Data Entry >> **Serial No. Lrc-20 (NTSC) 10µm**

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

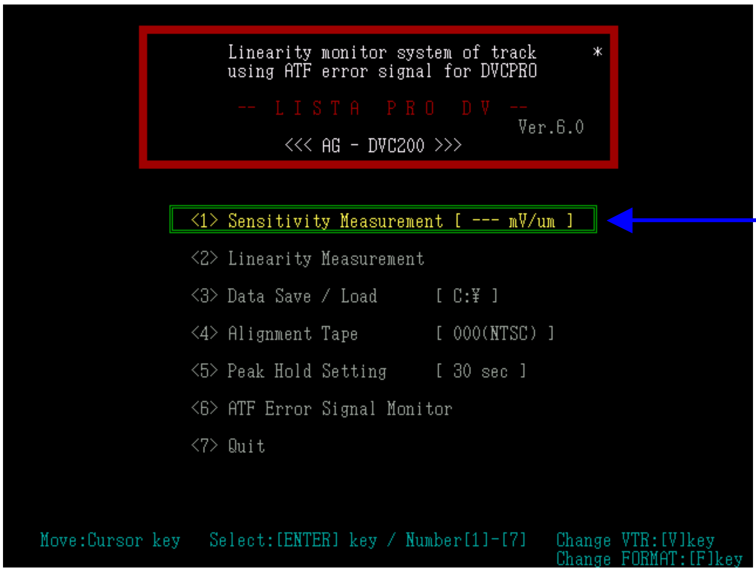
[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS]	- 0.6

NOTE: This is sample only, you must enter information from your alignment tape. Each tape is different.

1-8. LISTA Sensitivity Detection

TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
SPEC.	40 mV / µm to 120 mV / µm



```
        Linearity monitor system of track        *
        using ATF error signal for DVCPRO

          -- L I S T A   P R O   D V --
                                          Ver.6.0
             <<< AG - DVC200 >>>

     <1> Sensitivity Measurement [ --- mV/um ]

     <2> Linearity Measurement

     <3> Data Save / Load        [ C:¥ ]

     <4> Alignment Tape          [ 000(NTSC) ]

     <5> Peak Hold Setting       [ 30 sec ]

     <6> ATF Error Signal Monitor

     <7> Quit

Move:Cursor key   Select:[ENTER] key / Number[1]-[7]   Change VTR:[V]key
                                                       Change FORMAT:[F]key
```

Select at Sensitivity Detection.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button to open the **“VCR FUNCTION MENU”**.
4. Open the **“8. ADJUST MENU”** in **“VCR FUNCTION MENU”**.
5. Select the item **“ATF GAIN”** and press the MULTI-DIAL.
6. Message **“NOW SERVO ADJUST PUSH MENU TO RETURN”** appears on screen and press the PLAY button to playback the tape.
7. Press MENU button to return to **“ADJUST MENU”** screen.
8. Select item **“<1> Sensitivity Measurement”** on the LISTA main menu, and press **“ENTER”**.
9. Then the tape is played back (tape speed : 101.2%) automatically, and message **“1.2% Speed…”** appears on the screen.
10. Press the ENTER key, and then start measurement of the sensitivity value.
11. Confirm that the sensitivity value is with in specification, after the message **“<<Sensitivity Measurement Finish>>”**.

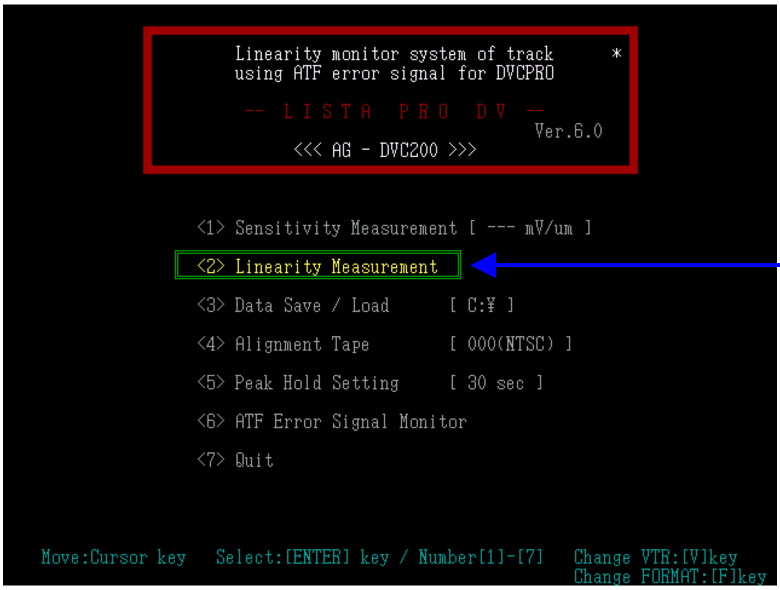
<<Sensitivity Measurement Finish>>

Sensitivity	**72.95 (mV/um)**
Sens.1	65.43 (mV/um)
Sens.1	85.48 (mV/um)

Confirm that the value of Sens.Value1 and Sens.Value2 in specification

1-9. LISTA Linearity Adjustment

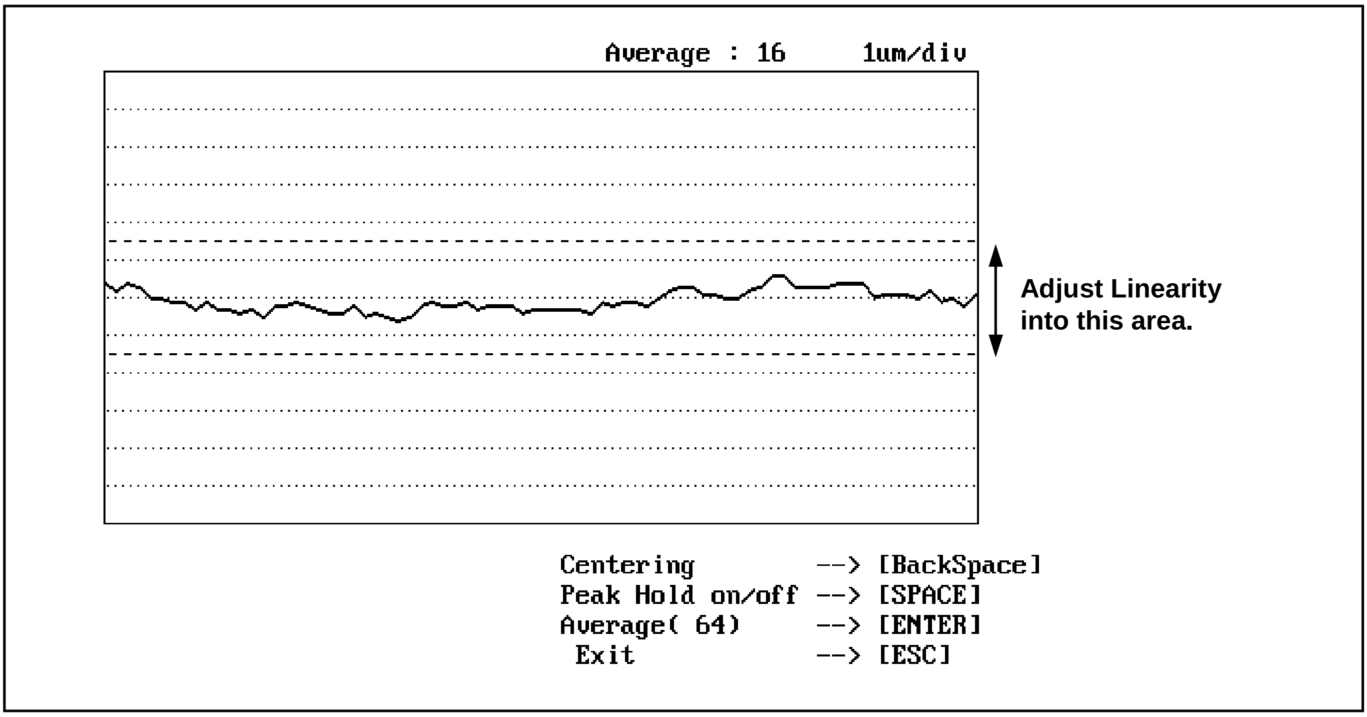
TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
ADJ.	S1 and T1 Post Height
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
TOOL	VFK1899 : Post Driver
SPEC.	Linearity : less than 3µm



```
          Linearity monitor system of track       *
          using ATF error signal for DVCPRO

            -- L I S T A   P R O   D V --
                                           Ver.6.0
              <<< AG - DVC200 >>>


     <1> Sensitivity Measurement [ --- mV/um ]

     <2> Linearity Measurement

     <3> Data Save / Load        [ C:¥ ]

     <4> Alignment Tape          [ 000(NTSC) ]

     <5> Peak Hold Setting       [ 30 sec ]

     <6> ATF Error Signal Monitor

     <7> Quit


Move:Cursor key   Select:[ENTER] key / Number[1]-[7]   Change VTR:[V]key
                                                        Change FORMAT:[F]key
```

Select at Linearity Measurement.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button to open the **"VCR FUNCTION MENU"**.
4. Open the **"8. ADJUST MENU"** in **"VCR FUNCTION MENU"**.
5. Select the item **"LINEARITY"** and press the MULTI-DIAL.
6. Message **"NOW SERVO ADJUST PUSH MENU TO RETURN"** is appears on screen and press the PLAY button to playback the tape.
7. Press MENU button to return to **"ADJUST MENU"** screen.
8. Select item **"<2> Linearity Measurement"** on the LISTA main menu, and press **"ENTER"**, then the Linearity Waveform appears.
9. When the waveform as shown in figure below is displayed on the screen, press the **"BS (Back Space)"** key for display the waveform positioned at the center of the scale on screen. Adjust S1 and T1 post height by using the post driver so that the linearity waveform is becomes flat as possible, and it should be within specification.
   (Adjust linearity waveform in the red dot line on the screen.)

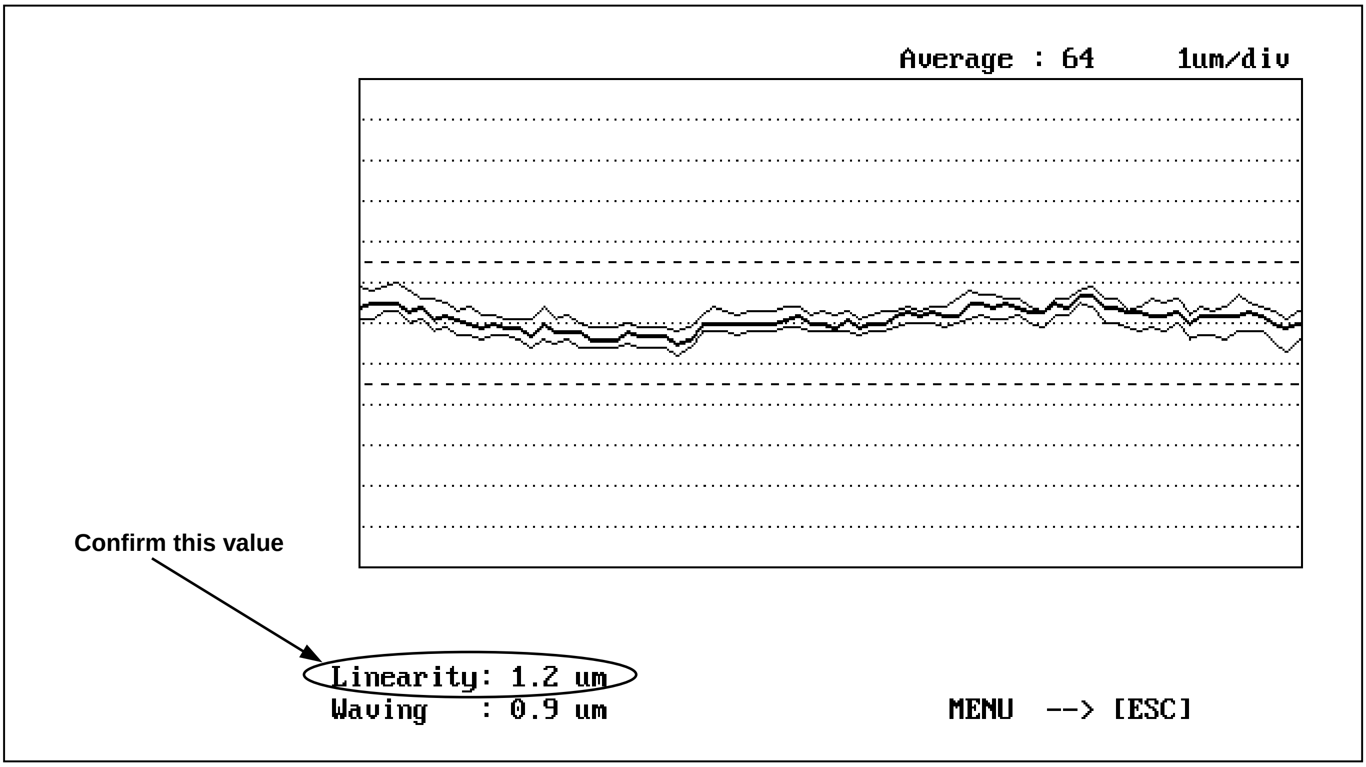


```
Average : 16     1um/div

Centering        --> [BackSpace]
Peak Hold on/off --> [SPACE]
Average( 64)     --> [ENTER]
 Exit            --> [ESC]
```

Adjust Linearity into this area.

POINT :
The left side of the waveform (entrance side) is adjusted by the height of S1 post and the right side of the waveform (exit side) is adjusted by the height of T2 post.
When the post driver is removed from upper part of post, linearity waveform is changed.
After finishing this adjustment, eject the tape and insert the tape again to confirm that the shape of the linearity waveform has not changed.

10. Press **“SPACE”** key to perform the Peak Hold in 30 seconds when linearity is displayed.
11. After finishing the Peak Hold, press **“SHIFT”** and “ **}** ” key simultaneously on the Key Board, then the numerical values of **“Linearity”** and **“Waving”** is displayed on left lower portion of screen. And confirm the numerical value of **“Linearity”** is in the specification. If the **“Linearity”** is out of specification, adjust height of S1 and T1 post.
12. After this measurement is finished, press the ESC key to return to the main menu.



```
Average : 64     1um/div

Linearity: 1.2 um
Waving   : 0.9 um                    MENU  --> [ESC]
```

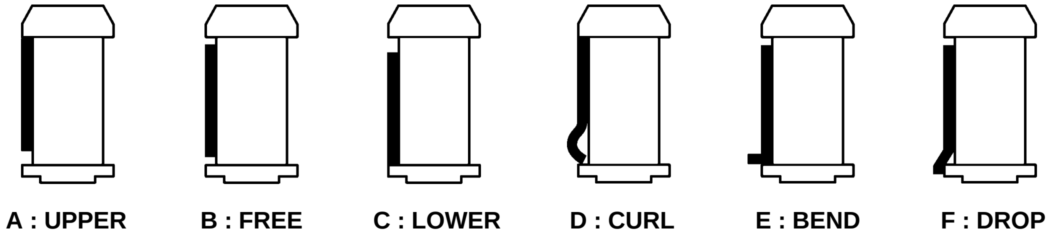
Confirm this value

1-10. Tape Pass Confirmation

1. Play back the Blank tape and confirm that the tape passes without curling at the upper and lower guides of the following posts in the Play modes as shown in below table.

NOTE: The tape pass can not be confirm when the mechanism unit is install in unit. Connect the mechanism unit by the extender cable and confirmed.

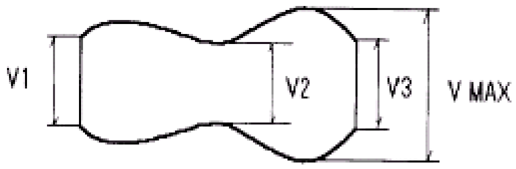
Post Name	**Tape limit (refer to figure)**					
	A	**B**	**C**	**D**	**E**	**F**
S1 post	NG	NG	OK	NG	NG	NG
S2 post	OK	OK	NG	NG	NG	NG
T2 post	OK	NG	NG	NG	NG	NG
T3 post	NG	OK	OK	NG	NG	NG



2. Confirm that the tape damage does not occur on tape at S1, T1 and T2 post by loading and unloading.
3. If curl and tape damage occurred at S1 and T2 post, adjust height of post by post driver.

1-11. Self-REC/PLAY Envelope Waveform Confirmation

1. Connect the EVR tools (refer to item ”1-4. Connection of EVR Tools”).
2. Connect the oscilloscope to the Measuring Points [ENVELOPE] and [HID] as a trigger on the Measuring Board (VFK1308P).
3. Record a color bar signal.
4. Play back the just recorded portion and confirm that the envelope is within the following specifications.



V1/V max. 0.9
V2/V max. 0.9
V3/V max. 0.9

Make as flat as possible

5. Confirm that the envelope is within the following specification, when the mode is changed as follows.
   STOP→PLAY: Envelope appears completely within 2 seconds and stable.
   REV→PLAY : Envelope appears completely within 2 seconds.
6. Confirm that the shape of envelope is diamond style.
7. If it is out of the specification, adjust height of the S1 and T2 Post.

2. MECHANICAL PARTS REPLACEMENT PROCEDURE

2-1. Cleaning Roller Unit

(Removal)

1. Remove the Mechanism Unit.
2. Unhook the hooking portion (C) of Cleaning Roller Unit to remove fixed Flexible cable.
3. Unscrew the 2 screws (A) and (B), then remove the Cleaning Roller Unit.

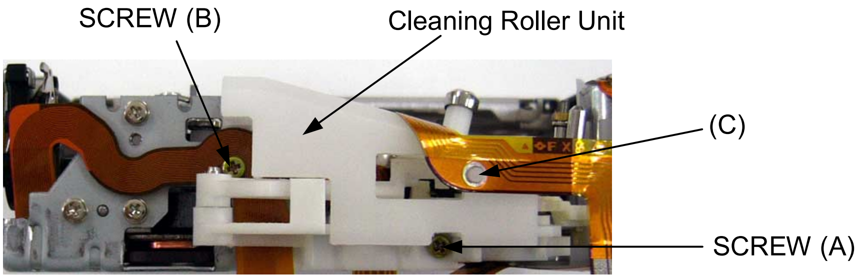


Figure A

(Installation)

1. Hook the portion (B) of Cleaning Roller Unit to portion (A) of Mechanism Chassis and install the Cleaning Roller Unit. Then be careful the Release Arm does not run onto the part at end of sub chassis (C) as shown in figure B.

NOTE: Supply the voltage to loading motor and the Cleaning Roller Unit is installed in the mechanical position as shown in figure (B) to simple installation (No problem it installation in loading complete position).

2. Tighten the Screw (A) and (B) as shown in figure A. When tighten the screw (B), flexible cable also tighten up together as shown in figure A.
3. The projection (C) of Cleaning Roller Unit should be matched to the hole of the flexible cable as shown in figure A.

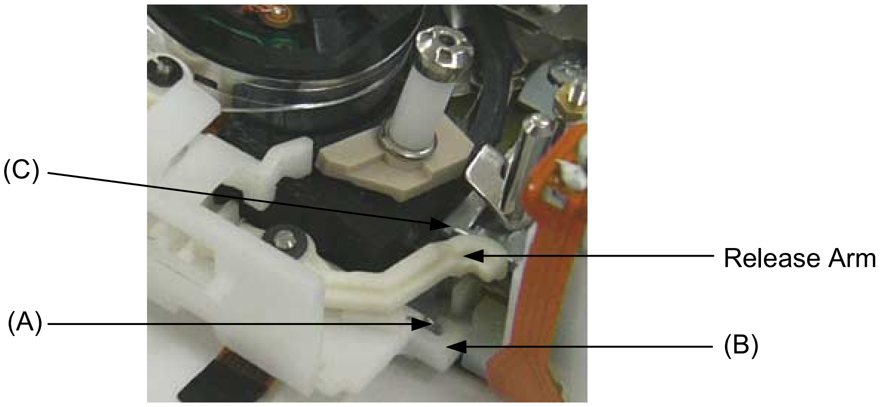


Figure B

(Confirmation of Operation)

1. To confirm that the Cleaning Roller operates normally on the Mechanism Unit, supply the voltage to loading motor and confirm that the Cleaning Roller touches the Cylinder in loading operation.
2. To confirm that the Cleaning Roller operates normally after the Mechanism Unit is installed to Unit, remove the Mech. Cover (R) on Cassette Cover to confirm the Cleaning Roller in window as shown in figure (C). Insert the cassette tape to Unit and confirm that the Cleaning Roller touches the Cylinder in loading operation.

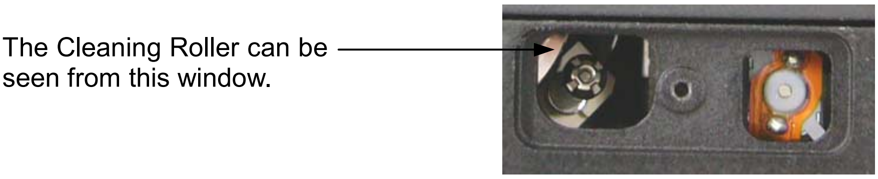


Figure C

SECTION 1

SERVICE INFORMATION

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1. SERVICING FIXTURES AND TOOLS

The following servicing tools are required for mechanical and electrical servicing and alignment.

The items marked **"NEW"** in the following list are necessary for the AG-DVC30/32/33.

Please refer to **"Y"** and **"N"** in column of table below, which tools required for servicing the NTSC and PAL model.

Please refer to **"Y"** in column of table below, these tools were also use for servicing the AG-DVX100/A and AG-DVC180/A.

1-1. Summary Table of Servicing Fixtures and Tools

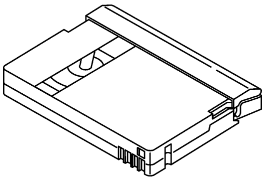
No	Parts No.	NAME	NTSC Model	PAL Model	AG-DVX100/A AG-DVC180/A	REMARK
1	VFM3010EDS	DV Alignment Tape (Color bar)	Y	N	Y	
2	VFM3110EDS	DV Alignment Tape (Color bar)	N	Y	Y	
3	VFM3000EDS	DV Alignment Tape (Linearity)	Y	Y	Y	
4	VFK1217	Tape End/Beg Detect Cassette	Y	Y	Y	
5	*VFK1908	EVR Adjustment Software	Y	N	N	**NEW** Download from the WEB site.
6	*VFK1909	EVR Adjustment Software	N	Y	N	**NEW** Download from the WEB site.
7	*VFK1481K	LISTA Software	Y	Y	Y	Download from the WEB site.
8	VFK1308P	Measuring Board	Y	Y	Y	
9	VFK1309A	EVR Connector Board	Y	Y	Y	**NOTE 1**
10	VFK1763	Connector Adapter	Y	Y	N	60-30pin
11	VJA0941	DC Cable	Y	Y	Y	2 pieces Required
12	VFK1317	30pin Flat Cable	Y	Y	Y	2 pieces Required
13	VFK1164TAR43	43mm Attachment Ring	Y	Y	Y	
14	VFK1164TCM01	Collimator Set (Infinity Lens)	Y	Y	Y	
15	VFK1345	CC Filter Holder	Y	Y	Y	
16	VFK1346	Step Down Ring	Y	Y	Y	
17	VFK1659	Step-Up Ring (43mm-49mm)	Y	Y	Y	
18	VFK1660	Step-Up Ring (49mm-62mm)	Y	Y	Y	
19	VFK1341	CC Filter (LB40)	Y	N	Y	
20	VFK1342	CC Filter (LB80)	N	Y	Y	
21	VFK1347	CC Filter (LB120)	Y	Y	Y	
22	VFK1884	CC Filter (LBA2)	Y	Y	Y	
23	VFK1888	CC Filter (LBB6)	Y	Y	Y	
24	VFK1885	CC Filter (LBB2)	Y	N	Y	
25	VFK1886	CC Filter (CC C10)	N	Y	Y	
26	VFK1887	CC Filter (CC C20)	N	Y	Y	
27	VFK1409A	Measuring Board	Y	Y	Y	**NOTE 2**
28	VFK1899	Post Driver	Y	Y	N	**NEW, NOTE 3**
29	VFK1810	LISTA Measuring Board	Y	Y	Y	**NOTE 2**
30	VFK1186	LISTA Cable	Y	Y	Y	
31	VFK1300	A/D Converter Board	Y	Y	Y	ISA PC Board.

NOTE:

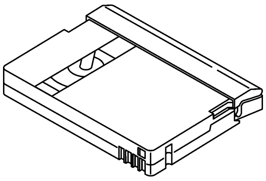
1. If you already have VFK1309, it can be modified to VFK1309A. (Refer to item "1-1. Modification procedure of VFK1309" on page ELE-1 in section 4.)
2. If you already have VFK1409S, it can be used for LISTA adjustment with VFK1810 instead of VFK1409A. (Refer to item "1-5. Connection of LISTA Adjustment system" on page MECH-3 in section 3.)
3. This Post Driver use for servicing the "A" mechanism of consumer model.

1 **VFM3010EDS**

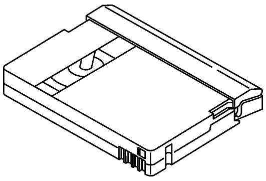
2 **VFM3110EDS**
DV Alignment Tape
(Color bar)



3 **VFM3000EDS**
DV Alignment Tape
(Linearity)



4 **VFK1217**
Tape End / Beg. Detect
Cassette



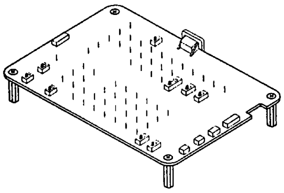
5 **VFK1908**

6 **VFK1909**
EVR Adjustment Software

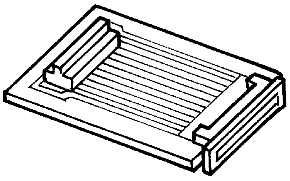
7 **VFK1481K**
LISTA Software

DOWN LOAD

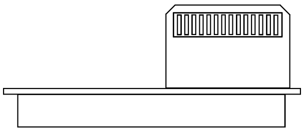
8 **VFK1308P**
Measuring Board



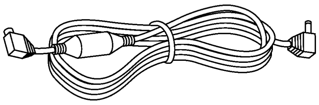
9 **VFK1309A**
EVR Connector Board



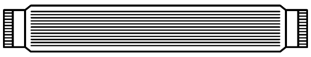
10 **VFK1763**
Connector Adapter



11 **VJA0941**
DC Cable

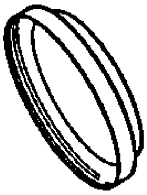


12 **VFK1317**
30pin Flat Cable

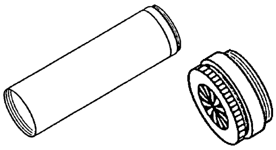


(In case of using VFK1308P, required 2pcs. of this cable)

13 **VFK1164TAR43**
43 mm Attachment Ring

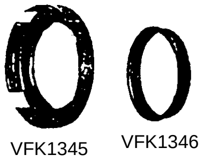


14 **VFK1164TCM01**
Collimator Set
(Infinity Lens)



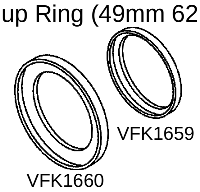
15 **VFK1345**
CC Filter Holder

16 **VFK1346**
Step Down Ring



17 **VFK1659**
Step-up Ring (43mm 49mm)

18 **VFK1660**
Step-up Ring (49mm 62mm)

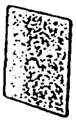


19 **VFK1341** (LB40)

20 **VFK1342** (LB80)

21 **VFK1347** (LB120)

CC Filter



22 **VFK1884** (LBA2)

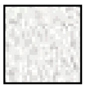
23 **VFK1888** (LBB6)

24 **VFK1885** (LBB2)

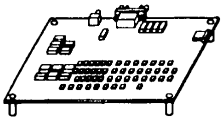
25 **VFK1886** (CC C10)

26 **VFK1887** (CC C20)

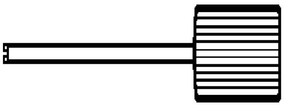
CC Filter



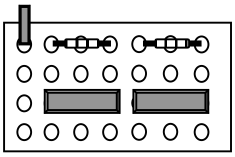
27 **VFK1409A**
Measuring Board



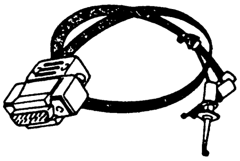
28 **VFK1899**
Post Driver



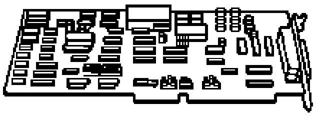
29 **VFK1810**
LISTA Measuring Board



30 **VFK1186**
LISTA Cable



31 **VFK1300**
A/D Converter Board



To determine which servicing fixtures and tools are required for each adjustment, refer to the following table.

No.	Parts No.	NAME	ADJUSTMENT ITEM
1	VFM3010EDS	DV Alignment Tape (Color bar)	7-2. PG shifter Adjustment (SEC.4)
2	VFM3110EDS	DV Alignment Tape (Color bar)	
3	VFM3000EDS	DV Alignment Tape (Linearity)	1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3)
4	VFK1217	Tape End/Beg Detect Cassette	7-1. Sensitivity adj. of Tape sensors Adjustment (SEC.4)
5	VFK1908	EVR Adjustment Software	4. EEPROM (SEC.4) 5. ZOOM SW Center Value Adjustment (SEC.4) 6. CAMERA ADJUSTMENT PROCEDURE (SEC.4) 7. VTR ADJUSTMENT PROCEDURE (SEC.4) 8. LCD ADJUSTMENT PROCEDURE (SEC.4) 9. EVF ADJUSTMENT PROCEDURE (SEC.4)
6	VFK1909		
7	VFK1481K	LISTA Software	1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3)
8	VFK1308P	Measuring Board	5-2. Adjust Menu (SEC.1) 1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3) 1-11. Self-REC/PLAY Envelope Waveform Confirmation (SEC.3) 4. EEPROM (SEC.4) 5. ZOOM SW Center Value Adjustment (SEC.4) 6. CAMERA ADJUSTMENT PROCEDURE (SEC.4) 7. VTR ADJUSTMENT PROCEDURE (SEC.4) 8. LCD ADJUSTMENT PROCEDURE (SEC.4) 9. EVF ADJUSTMENT PROCEDURE (SEC.4)
9	VFK1309A	EVR Connector Board	
10	VFK1763	Connection Adapter	
11	VJA0941	DC Cable	
12	VFK1317	30pin Flat Cable	
13	VFK1164TAR43	43mm Attachment Ring	6-6. Zoom Tracking Adjustment (SEC.4)
14	VFK1164TCM01	Collimator Set (Infinity Lens)	
15	VFK1345	CC Filter Holder	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4) 6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4) 6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
16	VFK1346	Step Down Ring	
17	VFK1659	Step-Up Ring (43mm-49mm)	
18	VFK1660	Step-Up Ring (49mm-62mm)	
19	VFK1341	CC Filter (LB40)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
20	VFK1342	CC Filter (LB80)	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
21	VFK1347	CC Filter (LB120)	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4) 6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
22	VFK1884	CC Filter (LBA2)	6-8-2. Outdoor(5100K) White Balance Adjustment (SEC.4)
23	VFK1888	CC Filter (LBB6)	
24	VFK1885	CC Filter (LBB2)	6-8-4. Warm white(3600K) White Balance Adjustment (SEC.4)
25	VFK1886	CC Filter (CC C10)	
26	VFK1887	CC Filter (CC C20)	6-8-3. Cool white(4500K) White Balance Adjustment (SEC.4)
27	VFK1409A	Measuring Board	1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3)
28	VFK1899	Post Driver	1-9. LISTA Linearity Adjustment (SEC.3) 1-10. Tape Path Confirmation (SEC.3) 1-11. Self-REC/PLAY Envelope Waveform Confirmation (SEC.3)
29	VFK1810	LISTA Measuring Board	1-8. LISTA Sensitivity Detection (SEC.3) 1-9. LISTA Linearity Adjustment (SEC.3)
30	VFK1186	LISTA Cable	
31	VFK1300	A/D Converter Board	

2. MAINTENANCE

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms have parts which will wear, and their wear and deterioration cause troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

The maintenance schedule requires replacement of mechanism unit, which contains a cylinder unit and so on.

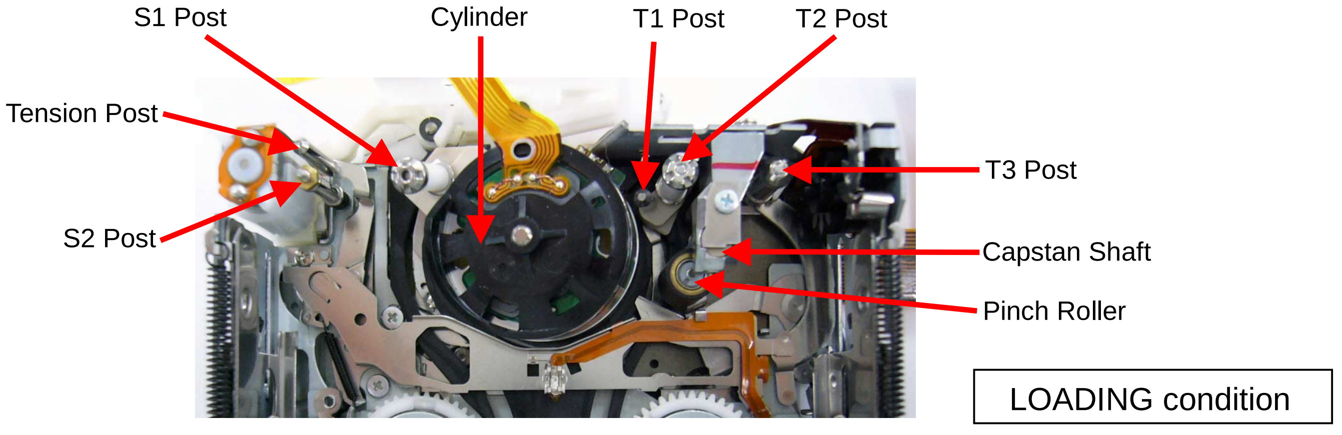
2-1. Maintenance Schedule

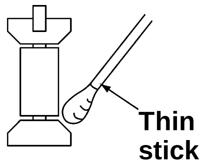
No.	Part Name	Part No.	Cleaning	Replacement	Remark
---	Tape Transport Part	------	100 hours	------	*1
1	Mechanism Chassis Unit	VXY1843	------	Every 2000 hours	*2

Note:
Hours of use are based on the head rotation hours. (Head rotation hours can be confirm on item DRUM RUN in DIAGNOSTIC menu.)
Hours of use are recommendation. It may depend on temperature, humidity, quality of tape or dust condition.
Hours of use are listed as the reference of maintenance. They do not mean guarantee hours.
HOUR METER can be reset on ADJUST menu (Refer to item “5-2-4. Hour Meter Reset and LOG clear” in this section.)
*1. Tape Transport part is cleaned by cleaning liquid.
*2. Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

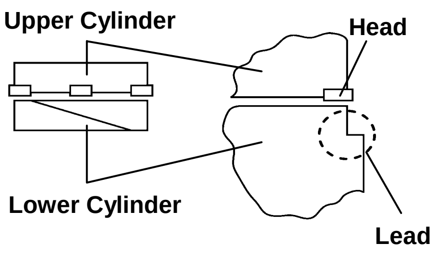
2-2. Cleaning of Tape Transport Part

Please clean the below indicated tape transport parts with cleaning liquid when needed.
(Tension Post, S1 Post, Cylinder & Heads, T1 Post, T2 Post, T3 Post, Capstan Shaft and Pinch Roller)





When cleaning the post, wrap a cloth on a pick. Wipe each post with a cloth dipped in cleaning liquid. And wipe it again with dry cloth.



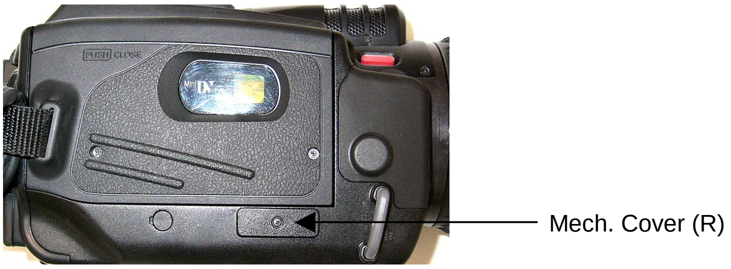
Do not forget cleaning the upper Cylinder, Head, tape transport part of Lower Cylinder and Lead, when cleaning the Cylinder.

3. MANUAL TAPE EJECT (EMERGENCY EJECT)

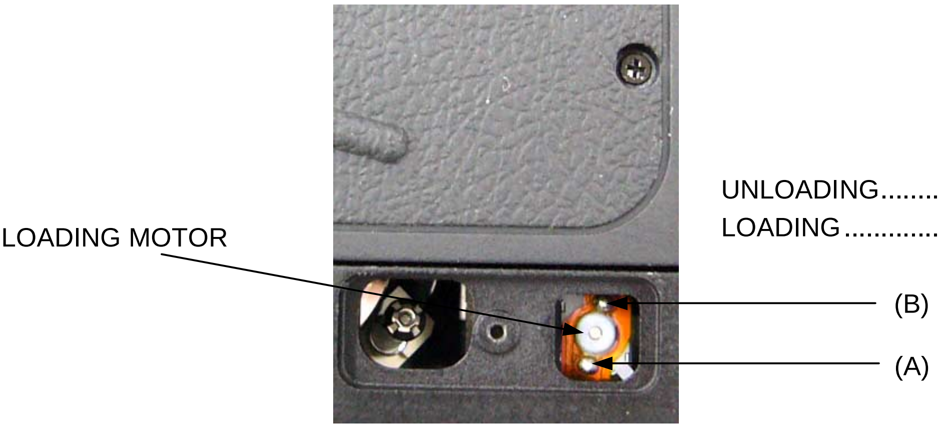
When the tape cannot be ejected by normal operation because of trouble in the electrical system or mechanical system, the tape can be removed from the unit manually by using the following method.

NOTE: By below indicated method, The unit will not take up tape slack. Be careful when removing the tape from Cassette Holder.

1. Remove the Mech. Cover (R).



2. Supply 4.5 Volts using 3 AA batteries in series to unload the posts using the motor.



UNLOADING.............A: +4.5V B: GND
LOADING..................A: GND B: +4.5V

3. Stop supplying the power when the tape is ejected and remove the tape from Cassette Holder.

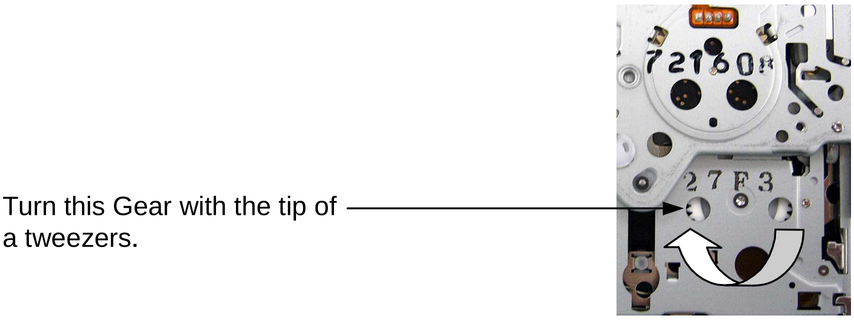
<How to rolls up tape>

Be sure to take up the tape slack so that tape does not become damaged.

1. Remove the Mechanism Unit.
2. Supply 4.5 Volts to unload the posts using the motor.
3. Stop supplying the power at unloading complete position.

NOTE: If power is supplied too long, then the Cassette tape will be ejected prematurely.

4. Turn the Gear of Supply Reel as shown in figure, and this will take up the slack in the tape.
5. Supply 4.5 Volts again to eject the tape using the motor and remove the tape from Cassette Holder.



(Bottom side of Mechanism)

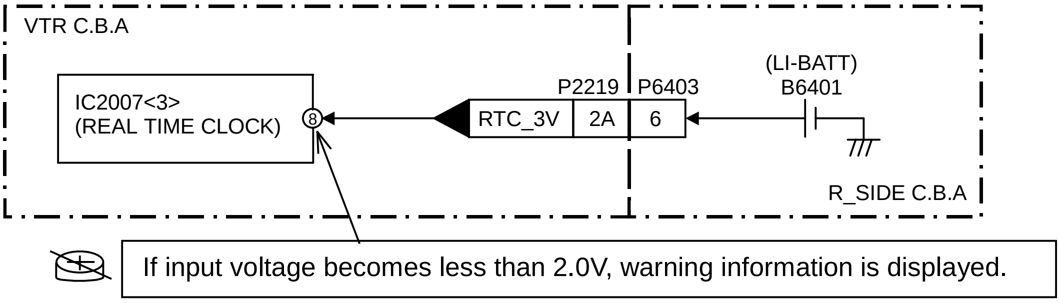
4. LITHIUM BATTERY

4-1. Replacement Procedure

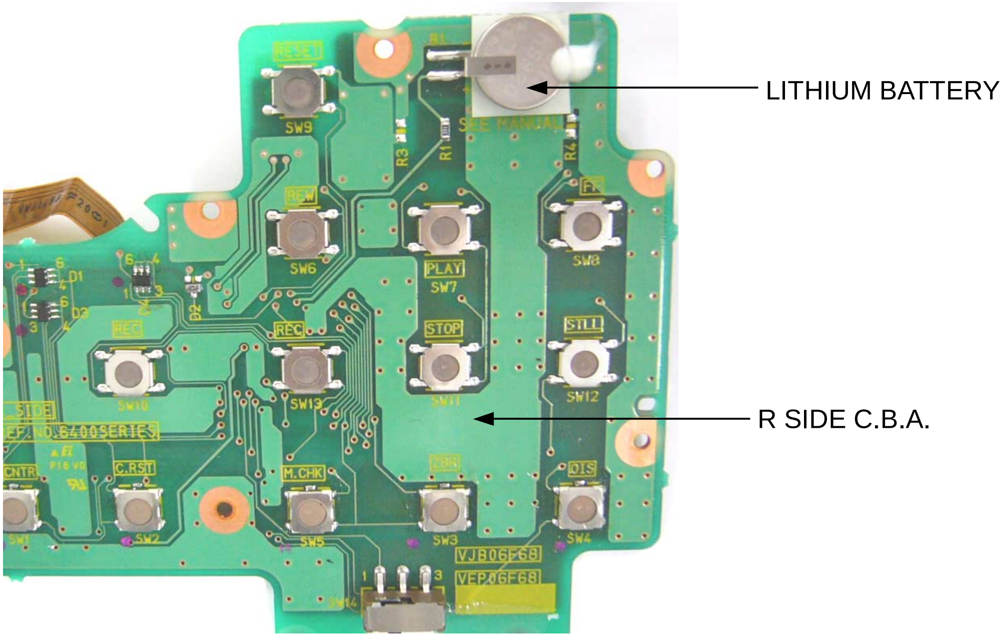
1. There is a Lithium battery on the R_SIDE C.B.A..
2. Unsolder the Lithium battery “Ref No: B6401/Part No: VSB0407” and then replace with the new one.

<INFORMATION>

The lithium battery is not rechargeable and may be discharged.



If input voltage becomes less than 2.0V, warning information is displayed.



NOTE:
The lithium battery is a critical component.
It must never be subjected to excessive heat of discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

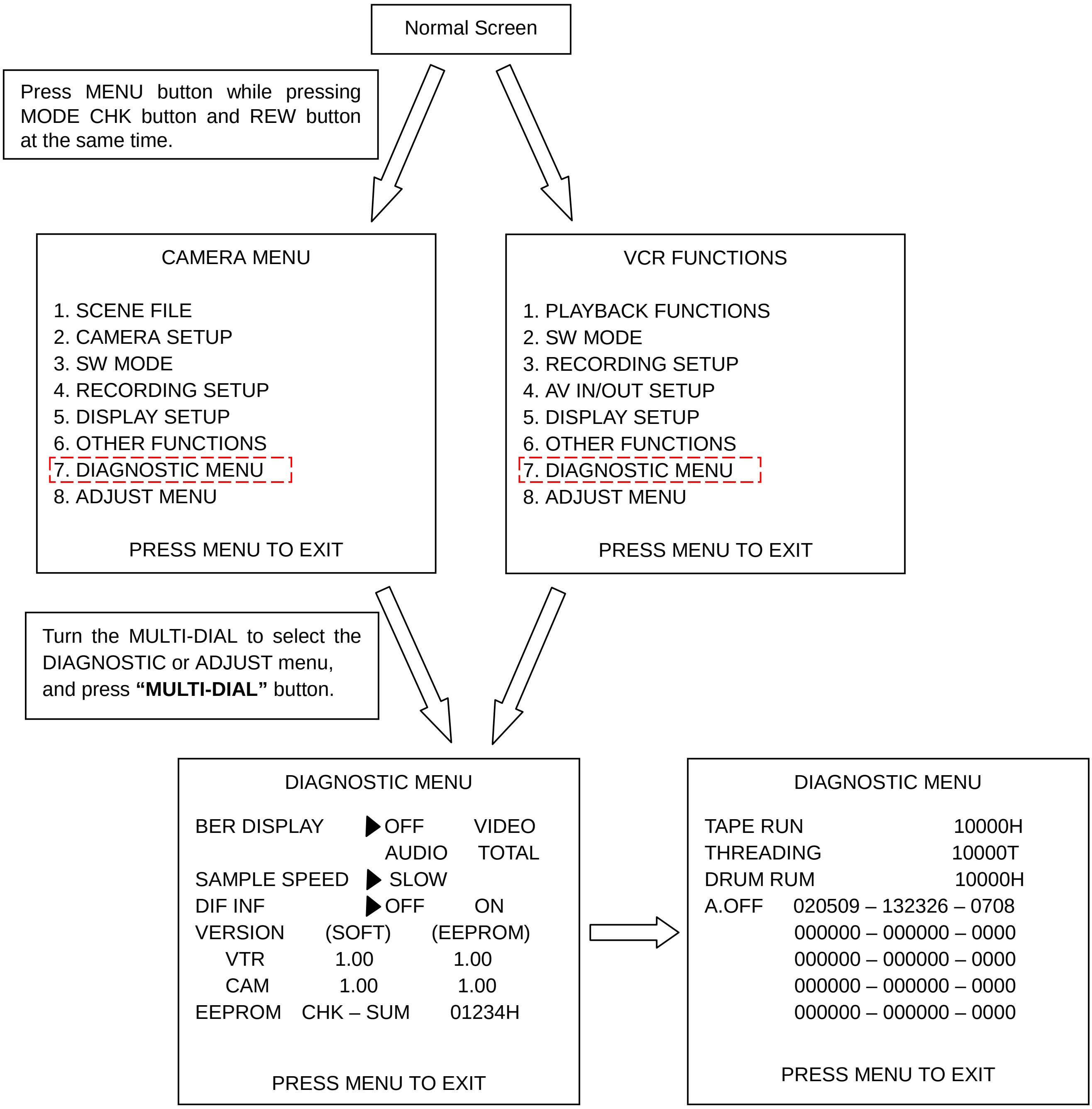
CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacture’s instructions.

5. SERVICE MENU

The DIAGNOSTIC and ADJUST menu can be displayed as follows.

Press and hold the **"MENU button"**. Press and hold the **"MODE CHK button"** and **"REW button"** at the same time, DIAGNOSTIC and ADJUST menu can be displayed.
Next, turn the **"MULTI-DIAL"** to select the DIAGNOSTIC or ADJUST menu, and press **"MULTI-DIAL"** button to open the DIAGNOSTIC or ADJUST menu.
NOTE: Another way to display the "DIAG" and "ADJUST" menu when you use the EVR tools is to place the VTR test SW on the VFK1308P to the L position. See item 5-2-1 how to connect the EVR tools, on page INF-12.



Normal Screen

Press MENU button while pressing MODE CHK button and REW button at the same time.

```
CAMERA MENU

1. SCENE FILE
2. CAMERA SETUP
3. SW MODE
4. RECORDING SETUP
5. DISPLAY SETUP
6. OTHER FUNCTIONS
7. DIAGNOSTIC MENU
8. ADJUST MENU

PRESS MENU TO EXIT
```

```
VCR FUNCTIONS

1. PLAYBACK FUNCTIONS
2. SW MODE
3. RECORDING SETUP
4. AV IN/OUT SETUP
5. DISPLAY SETUP
6. OTHER FUNCTIONS
7. DIAGNOSTIC MENU
8. ADJUST MENU

PRESS MENU TO EXIT
```

Turn the MULTI-DIAL to select the DIAGNOSTIC or ADJUST menu, and press **"MULTI-DIAL"** button.

```
DIAGNOSTIC MENU

BER DISPLAY      ▶OFF      VIDEO
                  AUDIO     TOTAL
SAMPLE SPEED     ▶ SLOW
DIF INF          ▶OFF       ON
VERSION      (SOFT)     (EEPROM)
   VTR         1.00        1.00
   CAM         1.00        1.00
EEPROM     CHK – SUM     01234H

PRESS MENU TO EXIT
```

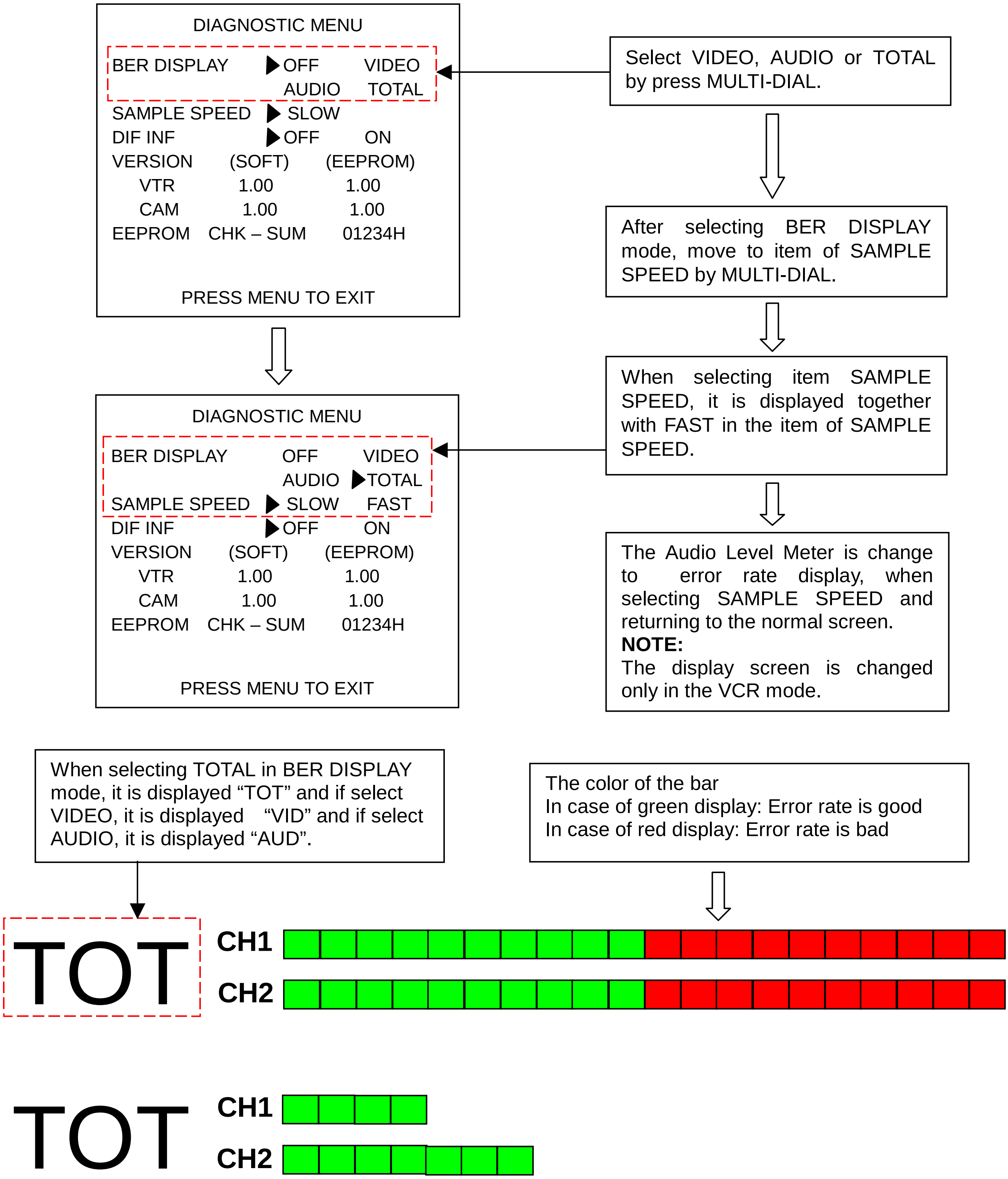
```
DIAGNOSTIC MENU

TAPE RUN                     10000H
THREADING                    10000T
DRUM RUM                     10000H
A.OFF     020509 – 132326 – 0708
          000000 – 000000 – 0000
          000000 – 000000 – 0000
          000000 – 000000 – 0000
          000000 – 000000 – 0000

PRESS MENU TO EXIT
```

5-1. Diagnostic Menu

The DIAGNOSTIC menu is the menu to confirm the condition of the VCR and it is possible to do the confirmation of the error rate, software version, auto off log and DIF status.

5-1-1. How to display the Error Rate.

This unit can be displayed Error Rate and it shows the playing condition of the VCR.
In case of the error rate is displayed, BER DISPLAY and SAMPLE SPEED mode is select on DIAGNOSTIC menu.



```
            DIAGNOSTIC MENU

BER DISPLAY       ▶OFF       VIDEO
                   AUDIO     TOTAL
SAMPLE SPEED      ▶ SLOW
DIF INF           ▶OFF       ON
VERSION     (SOFT)      (EEPROM)
   VTR        1.00        1.00
   CAM        1.00        1.00
EEPROM   CHK – SUM      01234H

          PRESS MENU TO EXIT
```

Select VIDEO, AUDIO or TOTAL by press MULTI-DIAL.

After selecting BER DISPLAY mode, move to item of SAMPLE SPEED by MULTI-DIAL.

When selecting item SAMPLE SPEED, it is displayed together with FAST in the item of SAMPLE SPEED.

```
            DIAGNOSTIC MENU

BER DISPLAY        OFF       VIDEO
                   AUDIO    ▶TOTAL
SAMPLE SPEED      ▶ SLOW      FAST
DIF INF           ▶OFF       ON
VERSION     (SOFT)      (EEPROM)
   VTR        1.00        1.00
   CAM        1.00        1.00
EEPROM   CHK – SUM      01234H

          PRESS MENU TO EXIT
```

The Audio Level Meter is change to error rate display, when selecting SAMPLE SPEED and returning to the normal screen.

NOTE:

The display screen is changed only in the VCR mode.

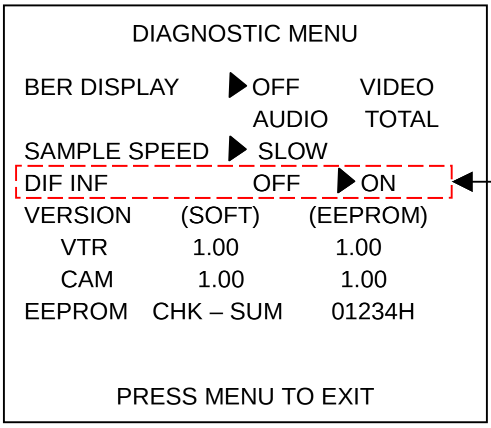
When selecting TOTAL in BER DISPLAY mode, it is displayed “TOT” and if select VIDEO, it is displayed “VID” and if select AUDIO, it is displayed “AUD”.

The color of the bar
In case of green display: Error rate is good
In case of red display: Error rate is bad

How to confirm the Error rate.

1. Select the TOTAL in item of BER DISPLAY.
2. Record the color bar signal on LP mode and playback the recorded portion. Confirm that the number of bar on display within 10 bars or less. The less bars displayed the better the error rate.

5-1-2. DIF STATUS Display.



```
            DIAGNOSTIC MENU

BER DISPLAY       ▶OFF      VIDEO
                   AUDIO     TOTAL
SAMPLE SPEED      ▶ SLOW
DIF INF            OFF     ▶ON
VERSION       (SOFT)      (EEPROM)
   VTR          1.00         1.00
   CAM          1.00         1.00
EEPROM   CHK – SUM       01234H


          PRESS MENU TO EXIT
```

Set the item “DIF INF” to ON and it does ON/OFF of the DIF STATUS display by pressing the MODE CHECK button on normal screen.

The displayed contents are as follows.

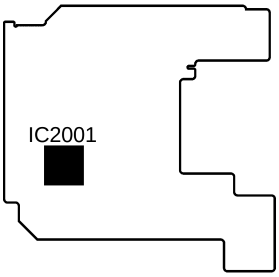
Items	Description	Remark
NODECNT	Number of NODE connections.	
MY_ID	NODE ID of this unit.	
ROOT_ID	ROOT ID	
IRM_ID	PHY ID of IRM	IRM(Isochronous Resonance Manager)
IN_CH	Input channel number of Isochronous data.	
OUT_CH	Output channel number of Isochronous data.	
DIF MODE	DIF mode	
RX_IN	Received condition of Isochronous data.	
O_BBC	Transmitted condition of Isochronous data.	
STYPE	Type of VIDEO signal	
FIELD	NTSC/PAL	
IN_SPD	Speed of Isochronous data.	OUT_SPD in CAMERA MODE
UID	USER ID of 1394 equipment	
AS	Source pack of AUDIO	
ASC	Source control pack of AUDIO	
VS	Source pack of VIDEO	
VSC	Source control pack of VIDEO	
HEADER	HEADER pack	

5-1-3. Software Version Display.

This unit have two pieces of microprocessor and two pieces of EEPROM

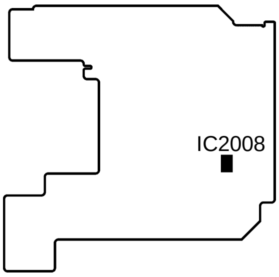
---	Camera board	VTR board
Microprocessor	IC3500	IC2001
EEPROM	IC3006	IC2008

VTR C.B.A.



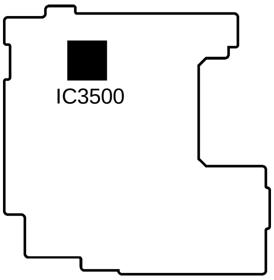
(FOIL SIDE)

VTR C.B.A.



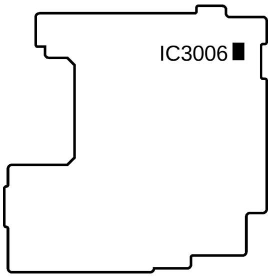
(COMPONENT SIDE)

CAMERA C.B.A.

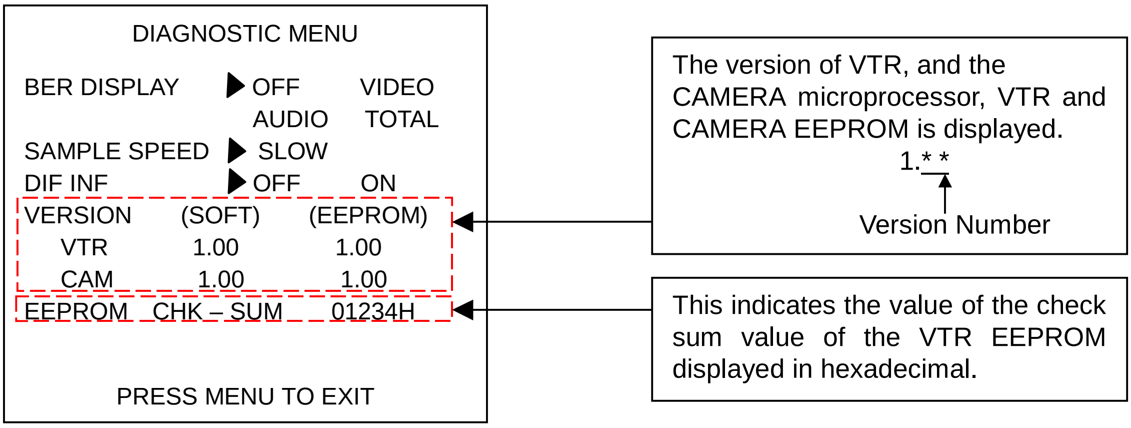


(FOIL SIDE)

CAMERA C.B.A.



(COMPONENT SIDE)



```
              DIAGNOSTIC MENU

BER DISPLAY       ▶ OFF      VIDEO
                    AUDIO     TOTAL
SAMPLE SPEED    ▶ SLOW
DIF INF           ▶ OFF       ON
VERSION       (SOFT)     (EEPROM)
   VTR          1.00        1.00
   CAM          1.00        1.00
EEPROM   CHK – SUM      01234H

          PRESS MENU TO EXIT
```

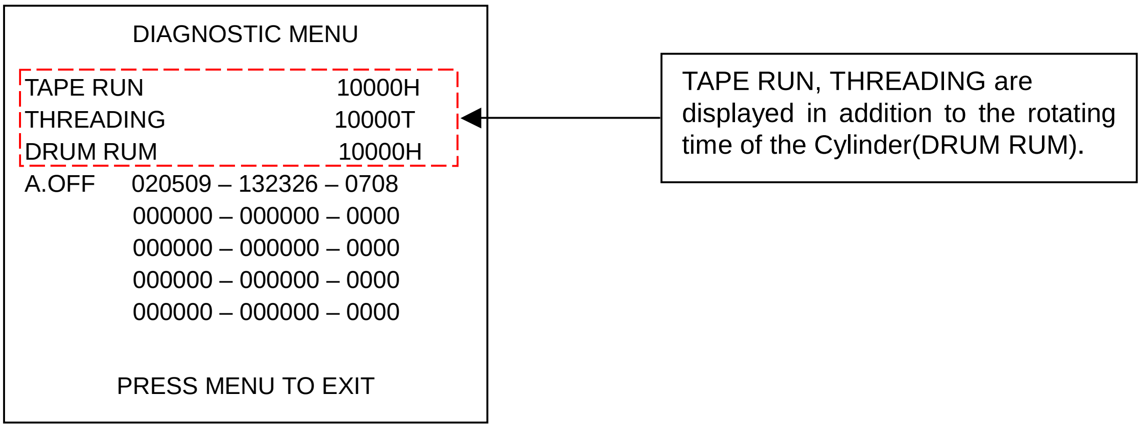
The version of VTR, and the CAMERA microprocessor, VTR and CAMERA EEPROM is displayed.

1.* *

Version Number

This indicates the value of the check sum value of the VTR EEPROM displayed in hexadecimal.

5-1-4. Hour Meter Display.



```
              DIAGNOSTIC MENU

TAPE RUN                          10000H
THREADING                         10000T
DRUM RUM                          10000H
A.OFF      020509 – 132326 – 0708
           000000 – 000000 – 0000
           000000 – 000000 – 0000
           000000 – 000000 – 0000
           000000 – 000000 – 0000

          PRESS MENU TO EXIT
```

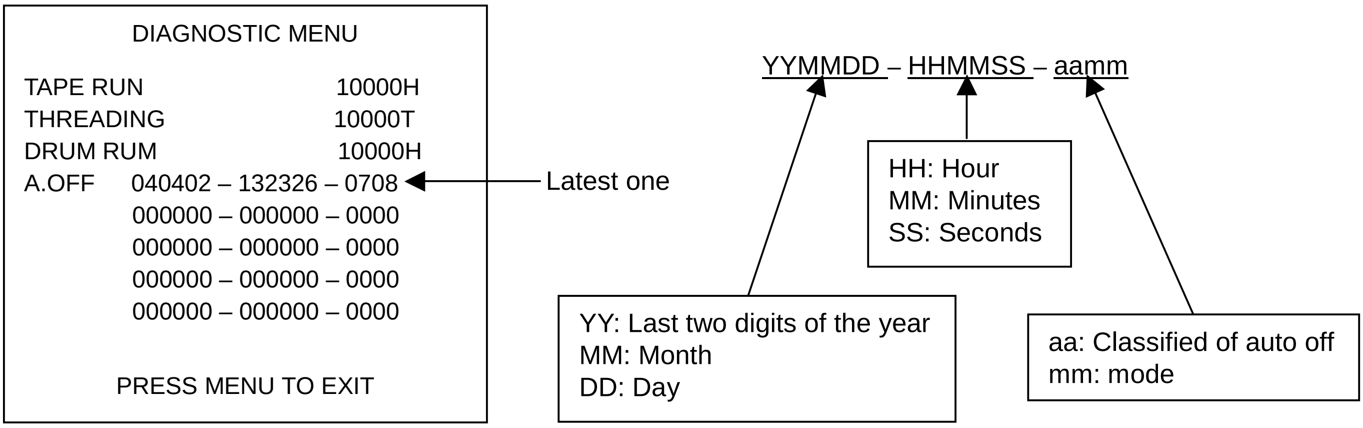
TAPE RUN, THREADING are displayed in addition to the rotating time of the Cylinder(DRUM RUM).

ITEM	Display Data	Description
TAPE RUN	00000H – 99999H	It displays the time that the tape is running in units of hours.
THREADING	00000T – 99999T	It displays the number of times the tape is inserted.
DRUM RUN	00000H – 99999H	It displays the time that the cylinder is rotating in units of hours. It displays same time as in the item HOUR METER of OTHER FUNCTION menu.

5-1-5. Auto Off Log

The VCR can display warning and auto off as alarm display. If case of the auto off occurs, the number and message are displayed in the normal screen. Contents of auto off can be confirm until previous 5 problem in diagnostic menu.

When auto off occurs, VCR memorizes date, time, classified of auto off and mode follow as indicated in format below. Diagnostic menu can display only 5 problems.



```
             DIAGNOSTIC MENU

TAPE RUN                       10000H
THREADING                      10000T
DRUM RUM                       10000H
A.OFF    040402 – 132326 – 0708
         000000 – 000000 – 0000
         000000 – 000000 – 0000
         000000 – 000000 – 0000
         000000 – 000000 – 0000

           PRESS MENU TO EXIT
```

For example, in case of displayed “040402–132326–0708”, Cylinder Lock occurred in normal playback mode at 13:23:26 on April 2th in 2004.
Please refer to below indicated “auto off” and “mode” tables.

< aa: Classified of AUTO OFF >

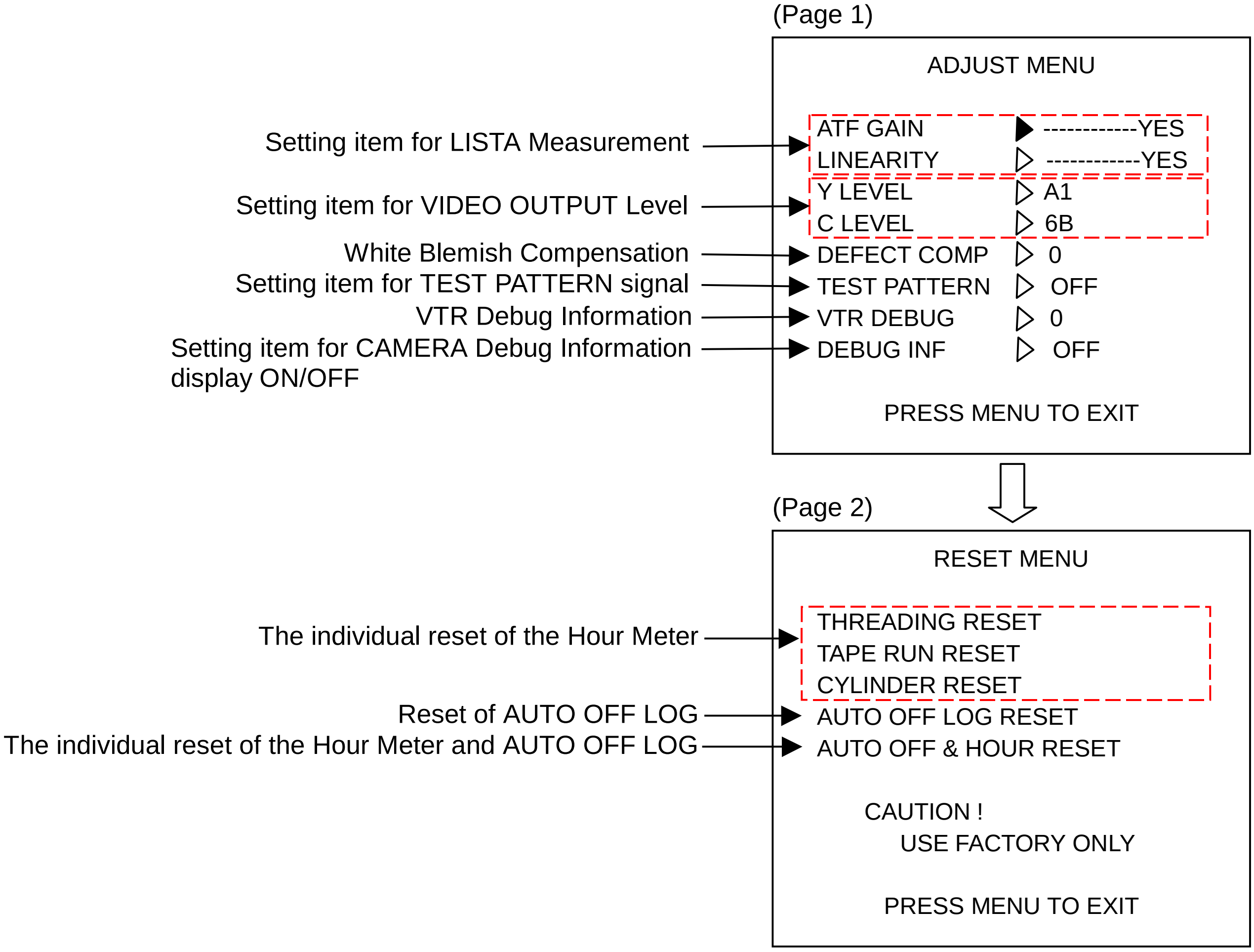
aa	Contents
01	FOCUS MOTOR LOCK
03	PSD NG
07	CYLINDER LOCK
08	LOADING LOCK
09	UNLOADING LOCK
0A	T REEL LOCK
0B	S REEL LOCK

NOTE: The messages “FOCUS MOTOR LOCK” and “PSD NG” are warning messages only and not the AUTO OFF mode.

< mm : MODE >

mm	Contents	mm	Contents
01	EJECT	12	AUDIO DUB RECORDING
02	STOP 1(CAMERA mode)	13	CAMERA RECORDING STANDBY
03	STOP 2(VCR mode)	14	CAMERA RECORDING
04	FAST FORWARD	15	CAMERA SEARCH (FORWARD)
05	REWIND	16	CAMERA SEARCH (REVERSE)
06	RECORDING STANDBY	17	REC REVIEW
07	MORMAL RECORDING	18	CAMERA EJECT
08	NORMAL PLAYBACK	1D	CYLINDER OFF
09	REVERSE PLAYBACK	22	SEARCH (FORWARD)
0A	CUE (FAST PLAYBACK)	23	SEARCH (REVERSE)
0B	REVIEW (FAST PLAYBACK)	24	BLANK SEARCH
0C	SLOW PLAYBACK	25	FRAME ADVANCE PLAYBACK
0D	REVERSE SLOW PLAYBACK	26	REVERSE FRAME ADVANCE PLAYBACK
11	AUDIO DUB STANDBY	---	---

5-2. Adjust Menu


(Page 1)
Setting item for LISTA Measurement
Setting item for VIDEO OUTPUT Level
White Blemish Compensation
Setting item for TEST PATTERN signal
VTR Debug Information
Setting item for CAMERA Debug Information display ON/OFF
(Page 2)
The individual reset of the Hour Meter
Reset of AUTO OFF LOG
The individual reset of the Hour Meter and AUTO OFF LOG

ADJUST MENU

ATF GAIN ▶ ------------YES
LINEARITY ▷ ------------YES
Y LEVEL ▷ A1
C LEVEL ▷ 6B
DEFECT COMP ▷ 0
TEST PATTERN ▷ OFF
VTR DEBUG ▷ 0
DEBUG INF ▷ OFF

PRESS MENU TO EXIT

RESET MENU

THREADING RESET
TAPE RUN RESET
CYLINDER RESET
AUTO OFF LOG RESET
AUTO OFF & HOUR RESET

CAUTION !
USE FACTORY ONLY

PRESS MENU TO EXIT

NOTE 1: It isn't possible to do the setting of the item of DEFFECT COMP", "TEST PATTERN", "VTR DEBUG" and "DEBUG INF". This is for factory use only.

NOTE 2: The Adjust menu screen can not be shifted to Page 2 in the CAMERA mode.
The menu screen can be shifted to Page 2, when connecting EVR tools in the VCR mode and making VTR_TEST SW of the measurement board set to L position.

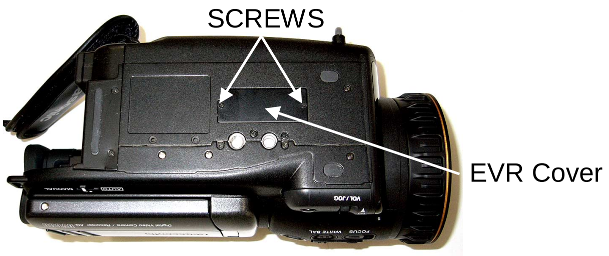
5-2-1. Connection of EVR tools

< Required Tools >

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	**NOTE:** VFK1309 also can be use
Connection Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	

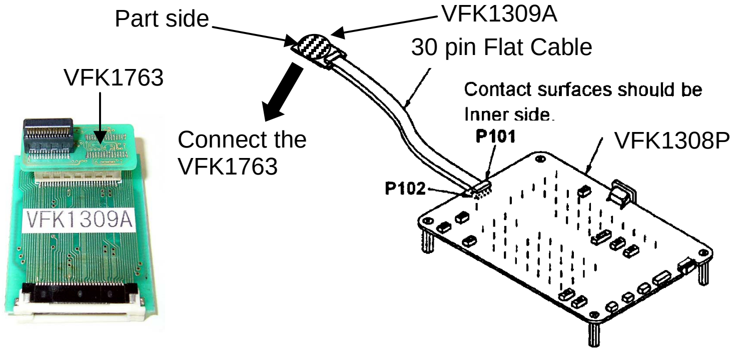
Connect the EVR tools as follows.

1. Unscrew 2 screws and remove the EVR cover.


SCREWS
EVR Cover

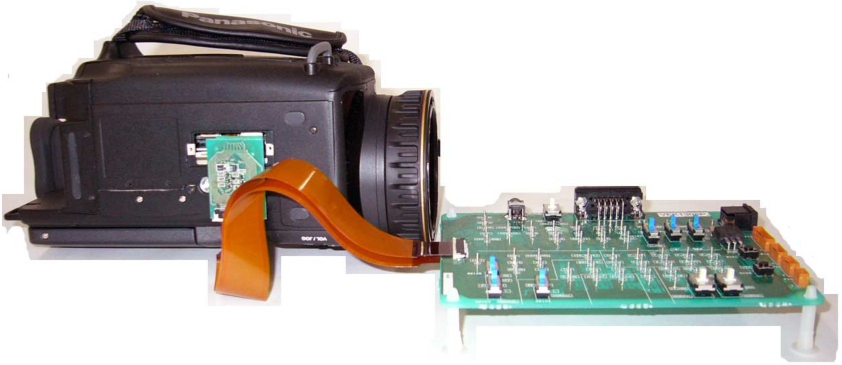
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figure. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
If the connector is attached backward, it will not work.



3. Connect the Connection Adapter (VFK1763) to EVR connector in Unit. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

When the VFK1763 is connected to EVR connector, be careful of the direction of VFK1309A. Please follow as shown in the figure.



5-2-2. Setting item for LISTA Measurement (Only VCR mode)

ATF GAIN

To confirm the ATF sensitivity, change the tape speed.
By pressing MULTI-DIAL button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.

NOW SERVO ADJUST
PUSH MENU TO RETURN

It will be returned to ADJUST MENU when the MENU key is pressed in this condition.

LINEARITY

To confirm the LINEARITY, change the ATF sensitivity.
By pressing MULTI-DIAL button, enter the adjustment mode and then exit the menu once. The VTR mode is operated when the menu mode is exited temporarily. The screen below is displayed.

NOW SERVO ADJUST
PUSH MENU TO RETURN

It will be returned to ADJUST MENU when the MENU key is pressed in this condition.
NOTE: ATF GAIN and LINEARITY can not be selected on CAMERA mode.

5-2-3. Adjustment item for Video Level

Y LEVEL
Y level of AV OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Luminance level adjustment in EVR adjustment.

C LEVEL
C level of AV OUT and S-VIDEO OUTPUT signal can be adjusted on this item.
The displayed value is the same as value for Chroma level adjustment in EVR adjustment.

5-2-4. Hour Meter Reset and LOG Clear(Only VCR mode)

The Hour Meter and Auto Off Log data can be reset by items on page 2 in Adjust menu screen. To shift page 2 screen, connect the EVR tools and set VTR_TEST SW of the measurement board to L position follow the item “5-2-1. Connection of EVR Tools”.

THREADING RESET
It resets the threading number of times.

TAPE RUN RESET
It resets tape running time.

CYLINDER RESET
It resets cylinder rotating time.

< How to reset Hour Meter >

1. The following message is displayed when choosing the item to reset with MULTI-DIAL and pushing MULTI-DIAL.

(In case select the item CYLINDER)

```
         CYLINDER RESET

  EXECUTE ?

    NO  ——————→  PUSH JOG
    YES
```

2. Select YES and when pushing MULTI-DIAL, reset is executed and the following message is displayed.

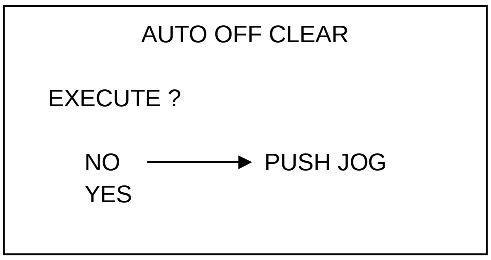
```
         CYLINDER RESET


             INITIAL
           COMPLETED !
```

AUTO OFF LOG RESET

It resets auto off log information.

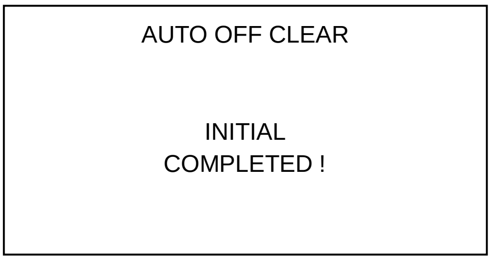
< How to reset Auto Off Log >

1. The following message is displayed when choosing the item “AUTO OFF LOG RESET” and pushing MULTI-DIAL.



```
           AUTO OFF CLEAR

   EXECUTE ?

      NO  ——————▶  PUSH JOG
      YES
```

2. Select YES and when pushing MULTI-DIAL, reset is executed and the following message is displayed.



```
           AUTO OFF CLEAR


               INITIAL
             COMPLETED !
```

AUTO OFF & HOUR METER RESET

It resets auto off log information and hour meter at the same time.
The procedure of resetting is same as the item auto off log and the hour meter.

6. CAMERA REMOTE

The control equipment is connected to CAMERA REMOTE jack to enable zooming and record start/stop to be initiated by remote control.
NOTE: CAMERA remote control is only effective in the CAMERA mode.
Please refer to below indicated specification, When external remote is checked.

Terminal (refer to figure A)	Contents
A	Record start/stop input
B	Zooming control input
C	GND

Equivalent circuit of CAM REMOTE jack

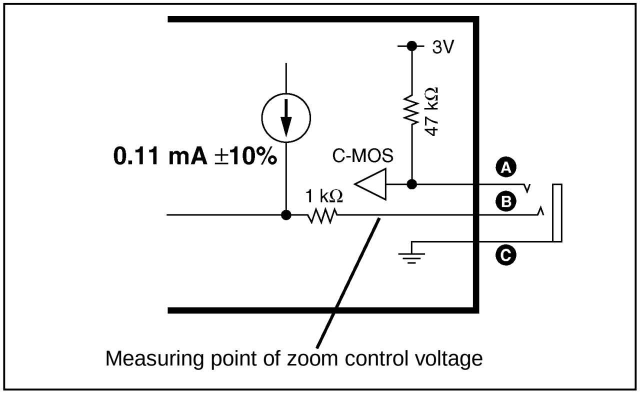


Figure A

6-1. Record start / stop input

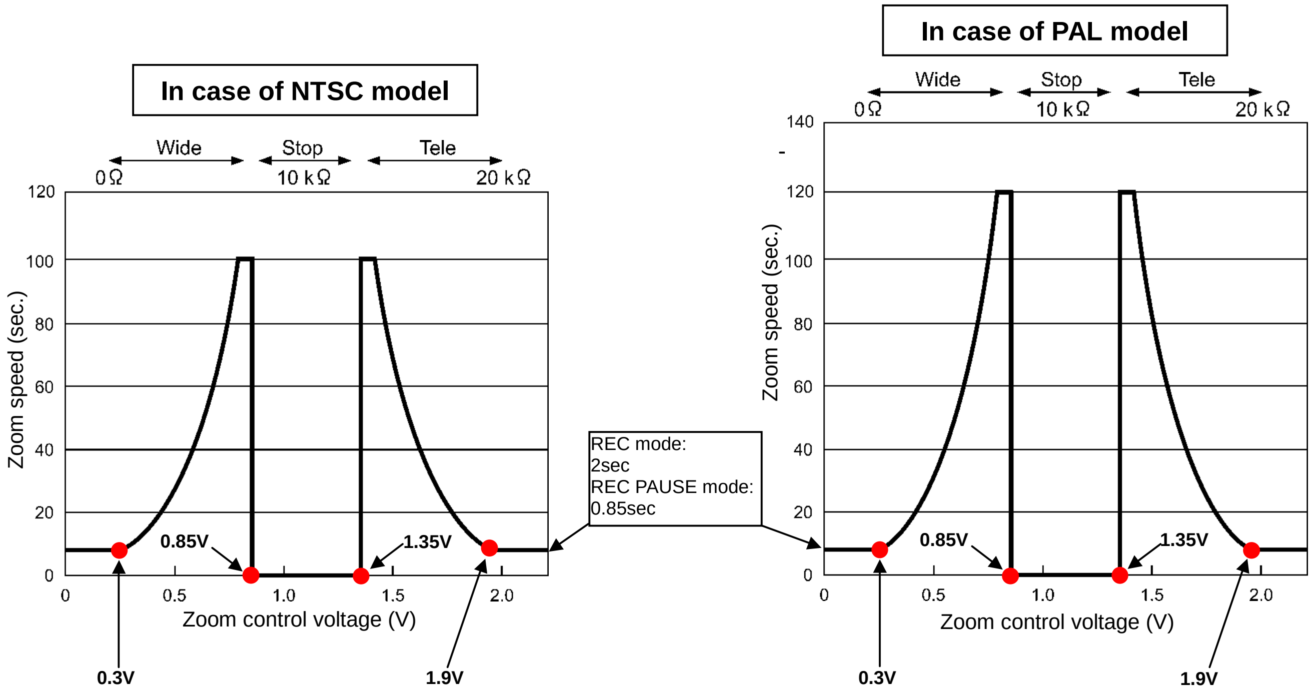
Every time A terminal connects with the GND,
it repeats recording and a recording stop.

6-2. Zooming control input

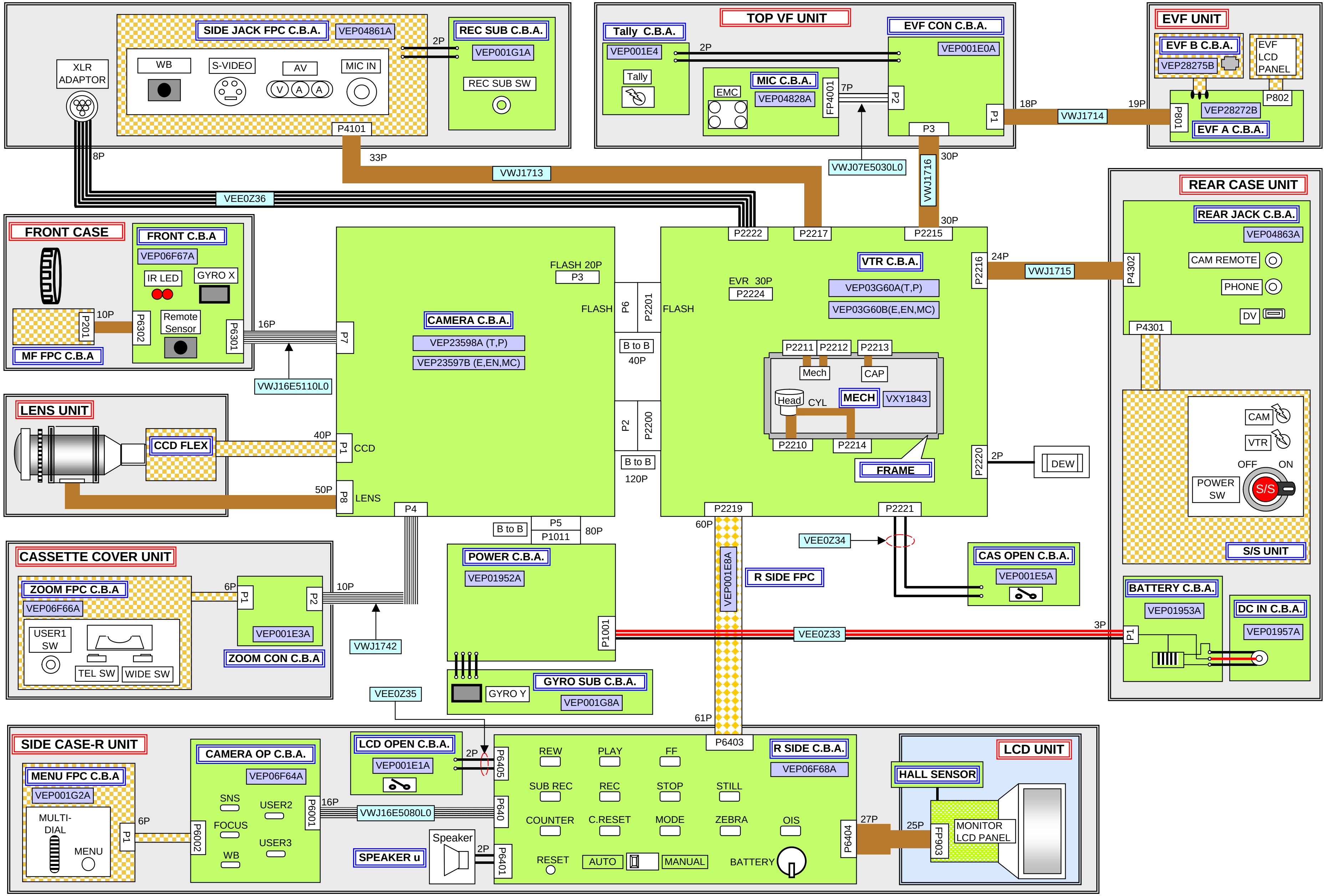
With the voltage to input to the B terminal, the zoom speed changes. As for the relation between the zoom control voltage and the zoom speed, it is as shown in the following.

Relation between the zoom control voltage and zoom speed

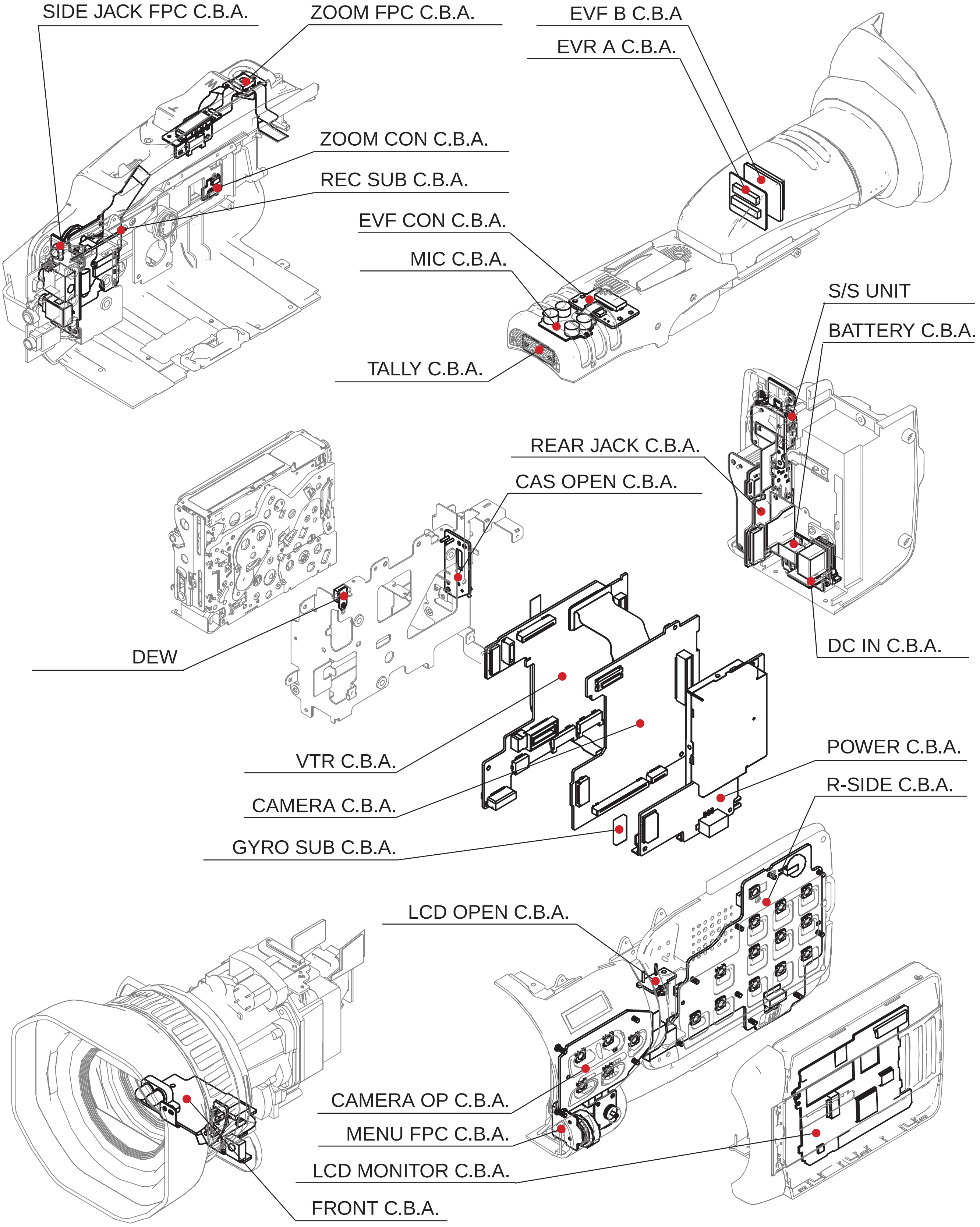
NOTE:
The control voltage and the zoom speed, which are shown below are a reference value. Because there is a little difference, see as the reference data.
And the following figure shows zoom low-speed mode. The relation between the control voltage and the zoom speed in the high speed and the medium (standard) speed modes are a little different.



INTERCONNECTION


SIDE JACK FPC C.B.A.
VEP04861A
WB
S-VIDEO
AV
V A A
MIC IN
XLR ADAPTOR
2P
REC SUB C.B.A.
VEP001G1A
REC SUB SW
P4101
33P
8P
VWJ1713
VEE0Z36
TOP VF UNIT
Tally C.B.A.
VEP001E4
Tally
2P
EVF CON C.B.A.
VEP001E0A
MIC C.B.A.
EMC
VEP04828A
FP4001
7P
P2
P1
P3
VWJ07E5030L0
VWJ1716
30P
18P
VWJ1714
19P
EVF UNIT
EVF B C.B.A.
VEP28275B
EVF LCD PANEL
P802
P801
VEP28272B
EVF A C.B.A.
REAR CASE UNIT
REAR JACK C.B.A.
VEP04863A
CAM REMOTE
PHONE
DV
P4302
P4301
24P
VWJ1715
FRONT CASE
FRONT C.B.A
VEP06F67A
IR LED
GYRO X
Remote Sensor
P6302
P6301
P201
10P
MF FPC C.B.A
16P
P7
VWJ16E5110L0
CAMERA C.B.A.
VEP23598A (T,P)
VEP23597B (E,EN,MC)
FLASH 20P
P3
FLASH
P6
P2201
B to B
40P
P2
P2200
B to B
120P
P2222
P2217
P2215
VTR C.B.A.
VEP03G60A(T,P)
VEP03G60B(E,EN,MC)
EVR 30P
P2224
FLASH
P2216
P2211
P2212
P2213
Mech
CAP
Head
CYL
MECH
VXY1843
P2210
P2214
FRAME
P2220
2P
DEW
LENS UNIT
CCD FLEX
40P
P1
CCD
50P
P8
LENS
P4
B to B
P5
P1011
80P
P2219
P2221
60P
CAM
VTR
OFF
ON
POWER SW
S/S
S/S UNIT
CASSETTE COVER UNIT
ZOOM FPC C.B.A
VEP06F66A
USER1 SW
TEL SW
WIDE SW
6P
P1
P2
VEP001E3A
ZOOM CON C.B.A
10P
VWJ1742
POWER C.B.A.
VEP01952A
P1001
GYRO SUB C.B.A.
GYRO Y
VEP001G8A
VEE0Z35
VEE0Z34
VEP001E8A
R SIDE FPC
CAS OPEN C.B.A.
VEP001E5A
VEE0Z33
3P
BATTERY C.B.A.
VEP01953A
DC IN C.B.A.
VEP01957A
P1
61P
SIDE CASE-R UNIT
MENU FPC C.B.A
VEP001G2A
MULTI-DIAL
MENU
6P
P1
P6002
CAMERA OP C.B.A.
VEP06F64A
SNS
USER2
FOCUS
WB
USER3
P6001
16P
VWJ16E5080L0
LCD OPEN C.B.A.
VEP001E1A
2P
P6405
P640
Speaker
2P
P6401
SPEAKER u
P6403
R SIDE C.B.A.
VEP06F68A
REW
PLAY
FF
SUB REC
REC
STOP
STILL
COUNTER
C.RESET
MODE
ZEBRA
OIS
RESET
AUTO
MANUAL
BATTERY
P6404
27P
LCD UNIT
HALL SENSOR
25P
FP903
MONITOR LCD PANEL

8. CIRCUIT BOARD LAYOUT


SIDE JACK FPC C.B.A.
ZOOM FPC C.B.A.
EVF B C.B.A
EVR A C.B.A.
ZOOM CON C.B.A.
REC SUB C.B.A.
EVF CON C.B.A.
MIC C.B.A.
S/S UNIT
BATTERY C.B.A.
TALLY C.B.A.
REAR JACK C.B.A.
CAS OPEN C.B.A.
DC IN C.B.A.
DEW
POWER C.B.A.
VTR C.B.A.
R-SIDE C.B.A.
CAMERA C.B.A.
GYRO SUB C.B.A.
LCD OPEN C.B.A.
CAMERA OP C.B.A.
MENU FPC C.B.A.
LCD MONITOR C.B.A.
FRONT C.B.A.

SECTION 2

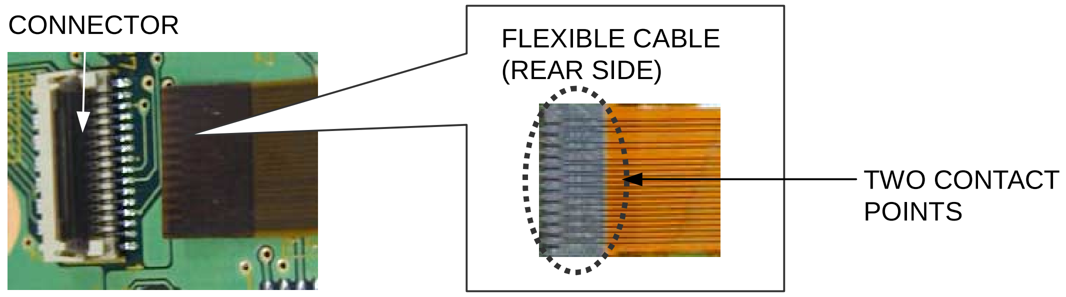
DISASSEMBLY PROCEDURES

CONTENTS

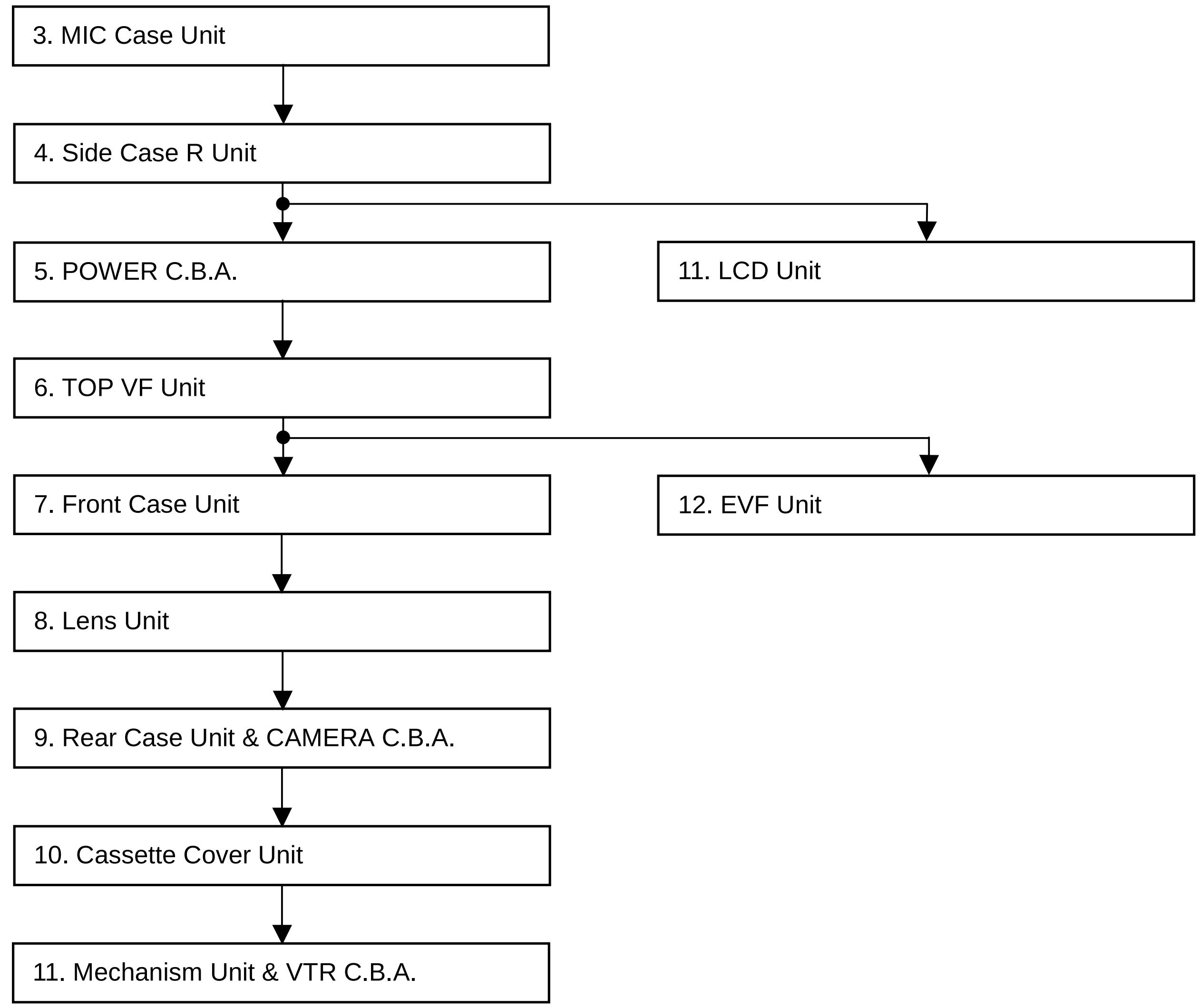
1. Note when inserting Flexible Cable DIS-1
2. Disassembly Flowchart DIS-1
3. Removal of MIC Case Unit DIS-2
4. Removal of Side Case R Unit DIS-3
5. Removal of POWER C.B.A. DIS-4
6. Removal of TOP VF Unit DIS-5
7. Removal of Front Case Unit DIS-6
8. Removal of Lens Unit DIS-7
9. Removal of Rear Case Unit & CAMERA C.B.A. DIS-8
10. Removal of Cassette Cover Unit DIS-9
11. Removal of Mechanism Unit & VTR C.B.A. DIS-10
12. Removal of LCD Unit DIS-12
13. Removal of EVF Unit DIS-13

1. Note when inserting Flexible Cable

The flexible cables, have two sets of contacts on each cable, see the figure below. When inserting these cables into the connector, make sure that the cables are fully inserted, if not they may damage the connector.

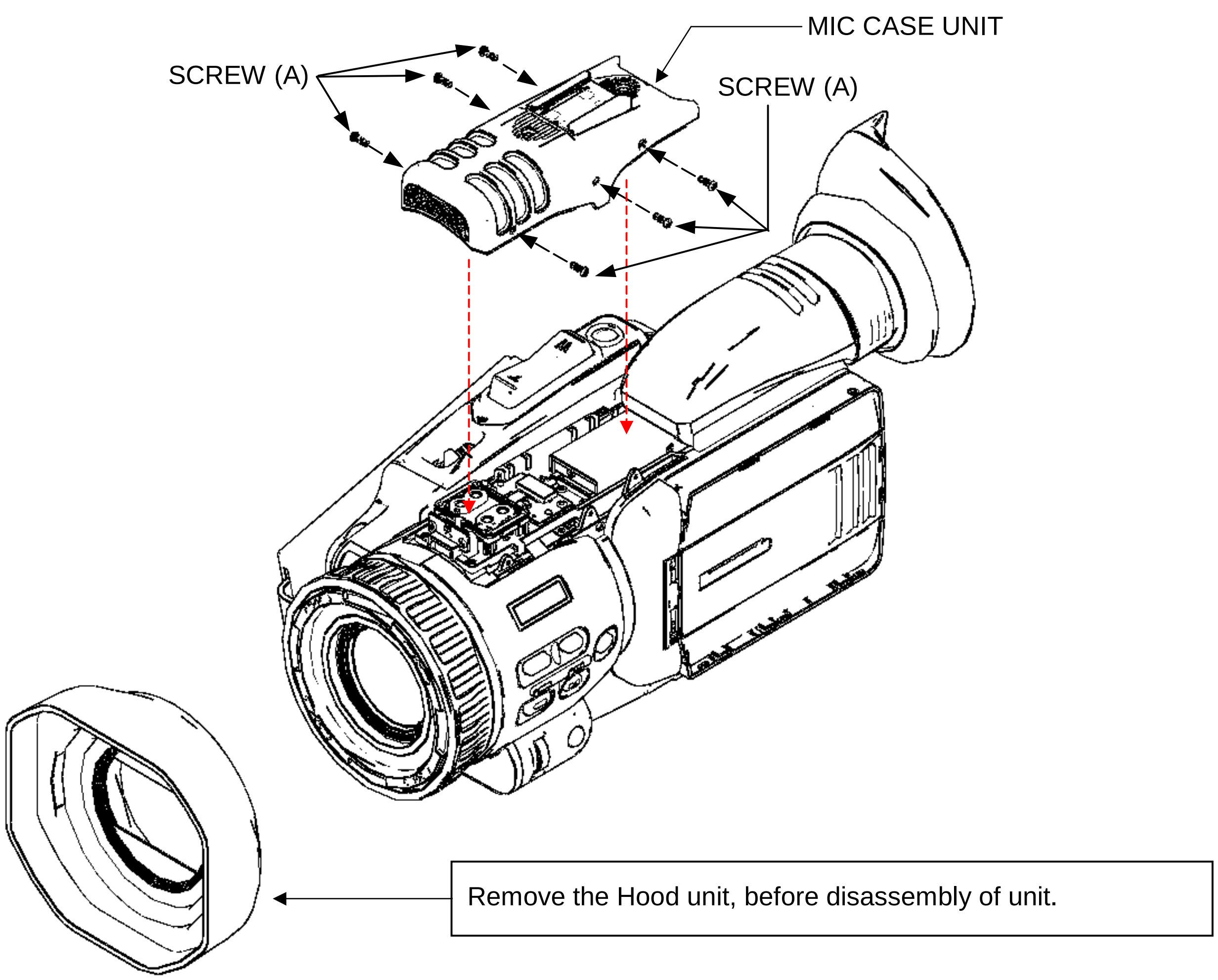

CONNECTOR
FLEXIBLE CABLE
(REAR SIDE)
TWO CONTACT
POINTS

2. Disassembly Flowchart


3. MIC Case Unit
4. Side Case R Unit
5. POWER C.B.A.
11. LCD Unit
6. TOP VF Unit
7. Front Case Unit
12. EVF Unit
8. Lens Unit
9. Rear Case Unit & CAMERA C.B.A.
10. Cassette Cover Unit
11. Mechanism Unit & VTR C.B.A.

3. Removal of MIC Case Unit

1. Unscrew the 6 screws (A) and remove the MIC Case Unit as shown in figure 3-1.


MIC CASE UNIT
SCREW (A)
SCREW (A)

Remove the Hood unit, before disassembly of unit.

Figure 3-1

4. Removal of Side Case R Unit

1. Remove the MIC Case Unit.
2. Unscrew the 10 screws (A) as shown in figure 4-1.
3. Disconnect the connector P6403 on R SIDE C.B.A. and remove the Side Case R Unit as shown in figure 4-1.

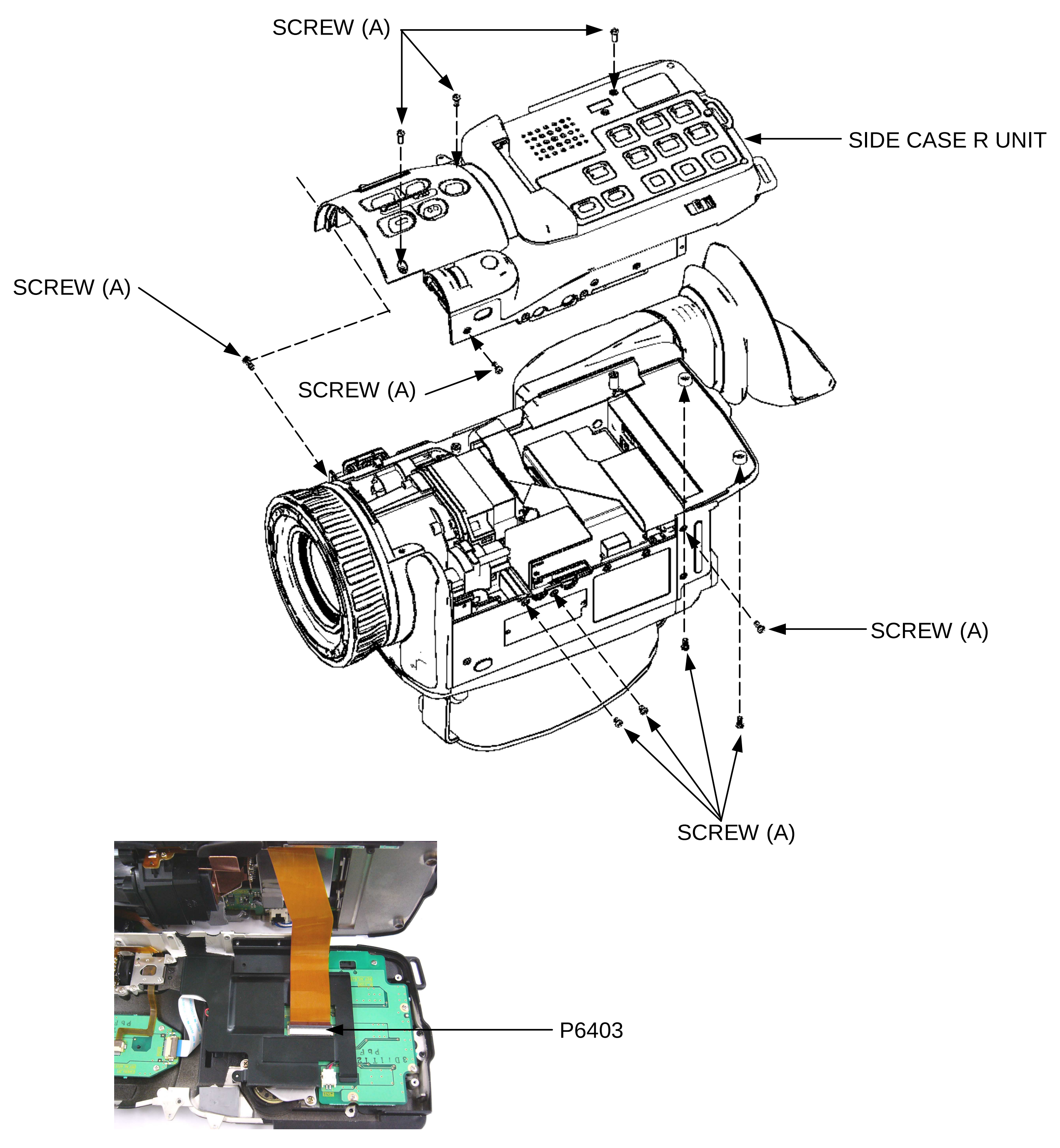

SCREW (A)
SIDE CASE R UNIT
SCREW (A)
SCREW (A)
SCREW (A)
SCREW (A)
P6403

Figure 4-1

5. Removal of POWER C.B.A.

1. Remove the MIC Case Unit.
2. Remove the Side case R Unit.
3. Disconnect a connector P1001 on POWER C.B.A. as shown in figure 5-1.
4. Unscrew the 2 screws (A) and remove the POWER C.B.A.. Be careful because the CAMERA C.B.A.(bottom side of POWER C.B.A.) and the connector in the POWER C.B.A are combining the one connector.

(Note in installation)

1. In case new POWER C.B.A. is installed, put the Cooling Sheet in following position as shown in figure 5-1.

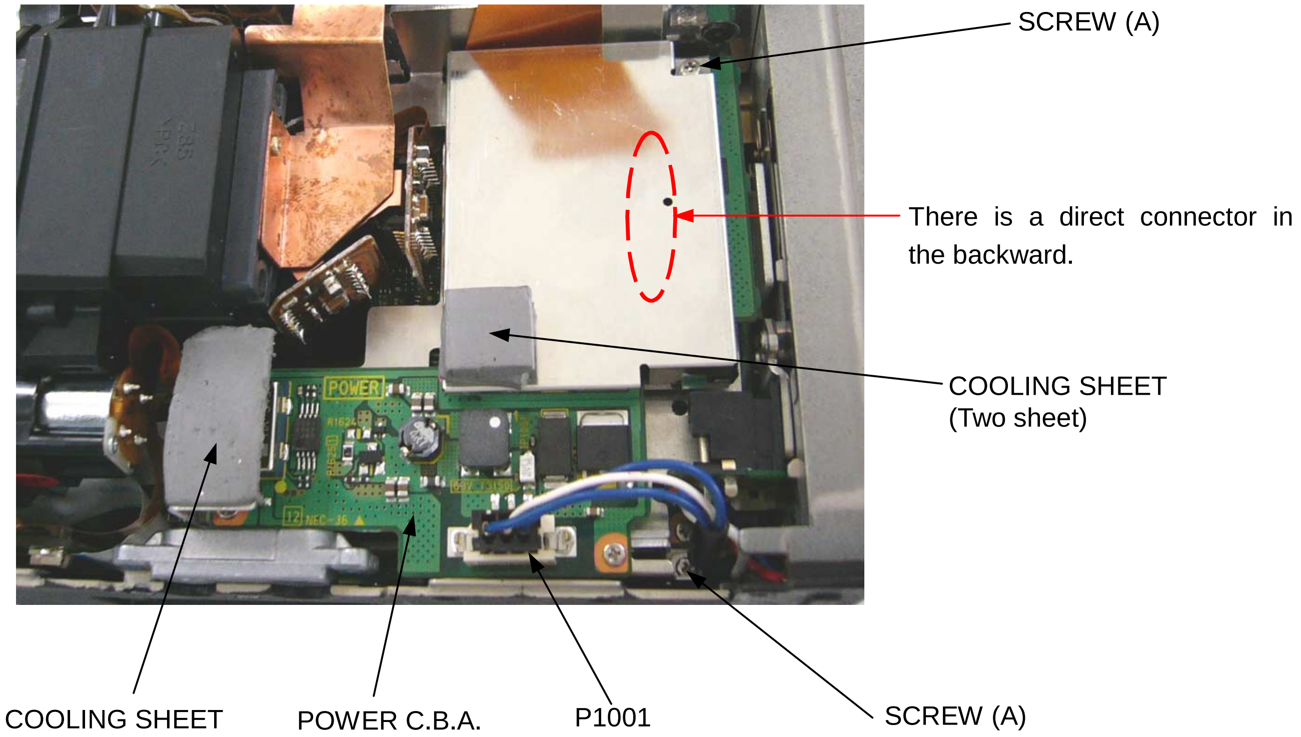

SCREW (A)
There is a direct connector in the backward.
COOLING SHEET
(Two sheet)
COOLING SHEET
POWER C.B.A.
P1001
SCREW (A)
POWER

Figure 5-1

6. Removal of TOP VF Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Unscrew the 4 screws (A) as shown in figure 6-1.
4. Lift up the TOP VF and disconnect a connector P2215 on VTR C.B.A., then remove the TOP VF Unit as shown in figure 6-1. Then be careful because the portion A and B are hooked together.

(Note in installation)

1. In case the flexible cable (A) is changed to new one, bend it to Z character as shown in figure 6-1.
2. The CCD Heat Sink is located to outside of TOP VF Unit as shown in figure 6-1.

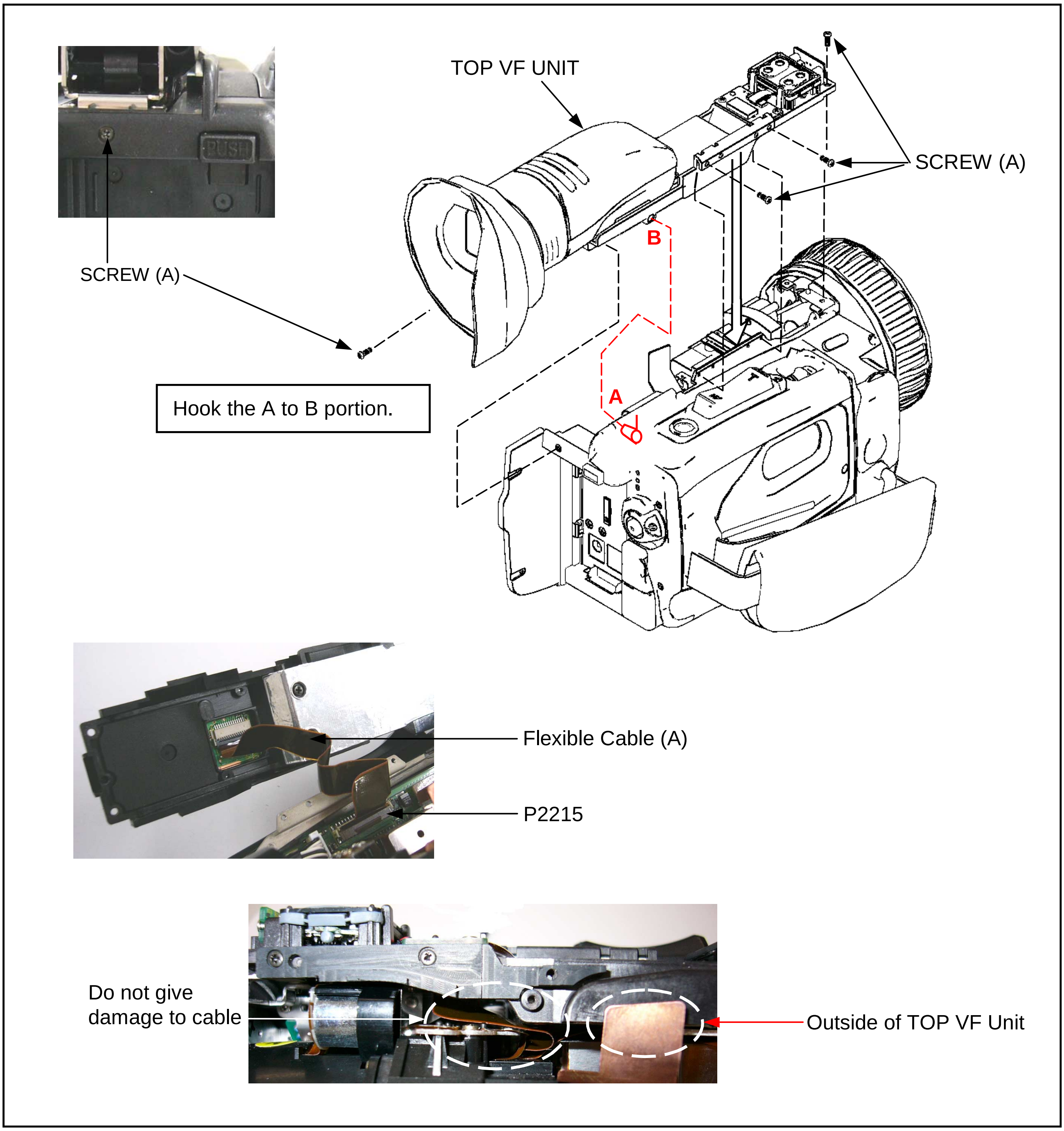

PUSH
SCREW (A)
TOP VF UNIT
SCREW (A)
B
A
Hook the A to B portion.
Flexible Cable (A)
P2215
Do not give damage to cable
Outside of TOP VF Unit

Figure 6-1

7. Removal of Front Case Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Remove the TOP VF Unit.
4. Unscrew the 3 screws (A) as shown in figure 7-1.
5. Disconnect a connector P6301 and remove the Front Case Unit as shown in figure 7-1.

(Note in installation)

1. When installing the Front Case Unit, do not give damage the Lens.
2. In case of the flexible cable (it connected with P6301 and CAMERA C.B.A.) is exchange to new one, bend it to Z character to put under the Lens Unit.

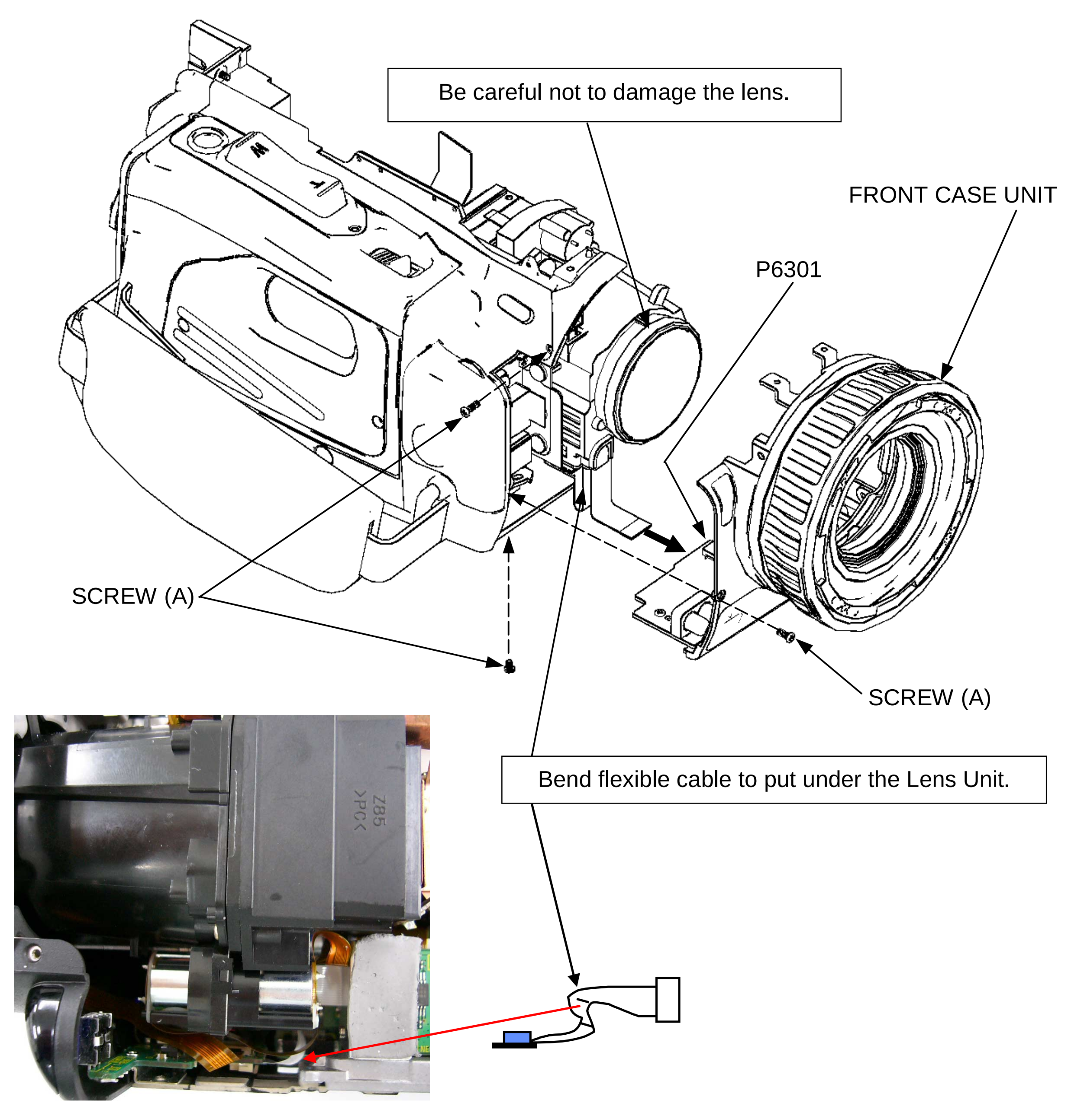

Be careful not to damage the lens.
FRONT CASE UNIT
P6301
SCREW (A)
SCREW (A)
Bend flexible cable to put under the Lens Unit.

Figure 7-1

8. Removal of Lens Unit

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of POWER C.B.A..
4. Removal of TOP VF Unit.
5. Removal of Front Case Unit.
6. Unscrew the 2 screws (A) and remove the CCD CON STOPPER as shown in figure 8-1.
7. Disconnect the connector P1 and P8 on CAMERA C.B.A. as shown in figure 8-1.
8. Unscrew the 4 screws (B) and remove the Lens Unit.
9. Unscrew the 4 screws (C) and remove the Lens Frame Unit from Lens Unit as shown in figure 8-1.

(Note in installation)

1. In case a new Lens Unit is installed, bend the flexible cable (A) to Z character as shown in figure 8-1.

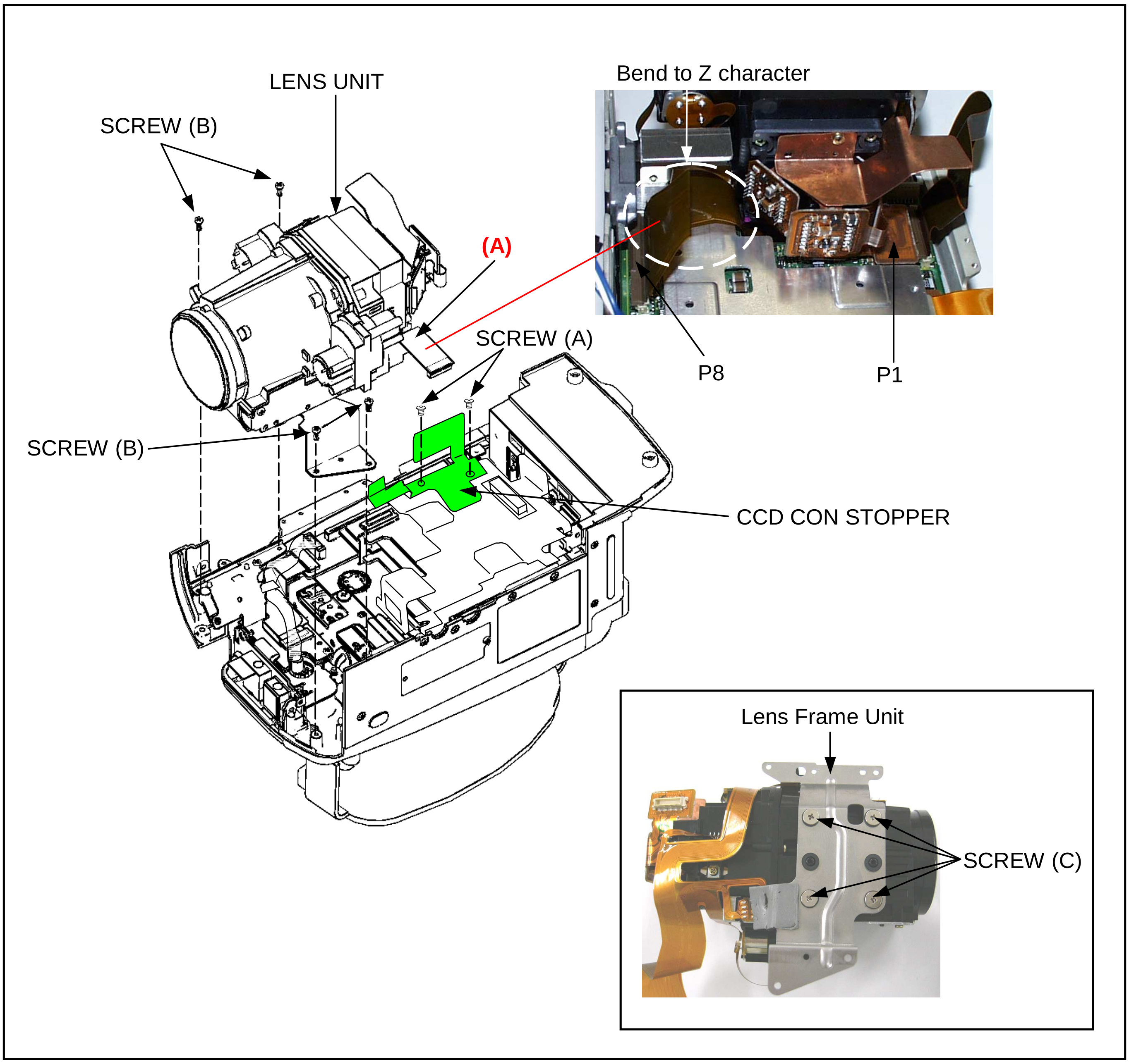

LENS UNIT
SCREW (B)
Bend to Z character
(A)
SCREW (A)
P8
P1
SCREW (B)
CCD CON STOPPER
Lens Frame Unit
SCREW (C)

Figure 8-1

9. Removal of Rear Case Unit & CAMERA C.B.A.

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of POWER C.B.A..
4. Removal of TOP VF Unit.
5. Removal of Front Case Unit.
6. Removal of Lens Unit.
7. Remove the 3 screws (A) as shown in figure 9-1.
8. Disconnect a connector P2 on CAMERA C.B.A. as shown in figure 9-1.
9. Unscrew the 2 screws (B) on CAMERA C.B.A. as shown in figure 9-1.
10. It shifts the Rear Case Unit as much as showing in figure 9-1 and remove the CAMERA C.B.A.. Be careful because the VTR C.B.A.(bottom side of CAMERA C.B.A.) and the connector in the CAMERA C.B.A are combined.
11. Disconnect a connector P2216 on VTR C.B.A. and remove the Rear Case Unit.

(Note in installation)

1. When installing the CAMERA C.B.A., Attach the CAMERA C.B.A. to portion "A" of Mech. Attachment Frame as shown in figure 9-1.
2. When installing the CAMERA C.B.A., the parts which are shown in figure 9-1 on the CAMERA C.B.A. are combined with the VTR C.B.A. with the direct connector, pushing CAMERA C.B.A. well.
3. When installing the Rear Case Unit, it puts section "B" in the hole of flexible cable, which is connected in P2216 as shown in figure 9-1.

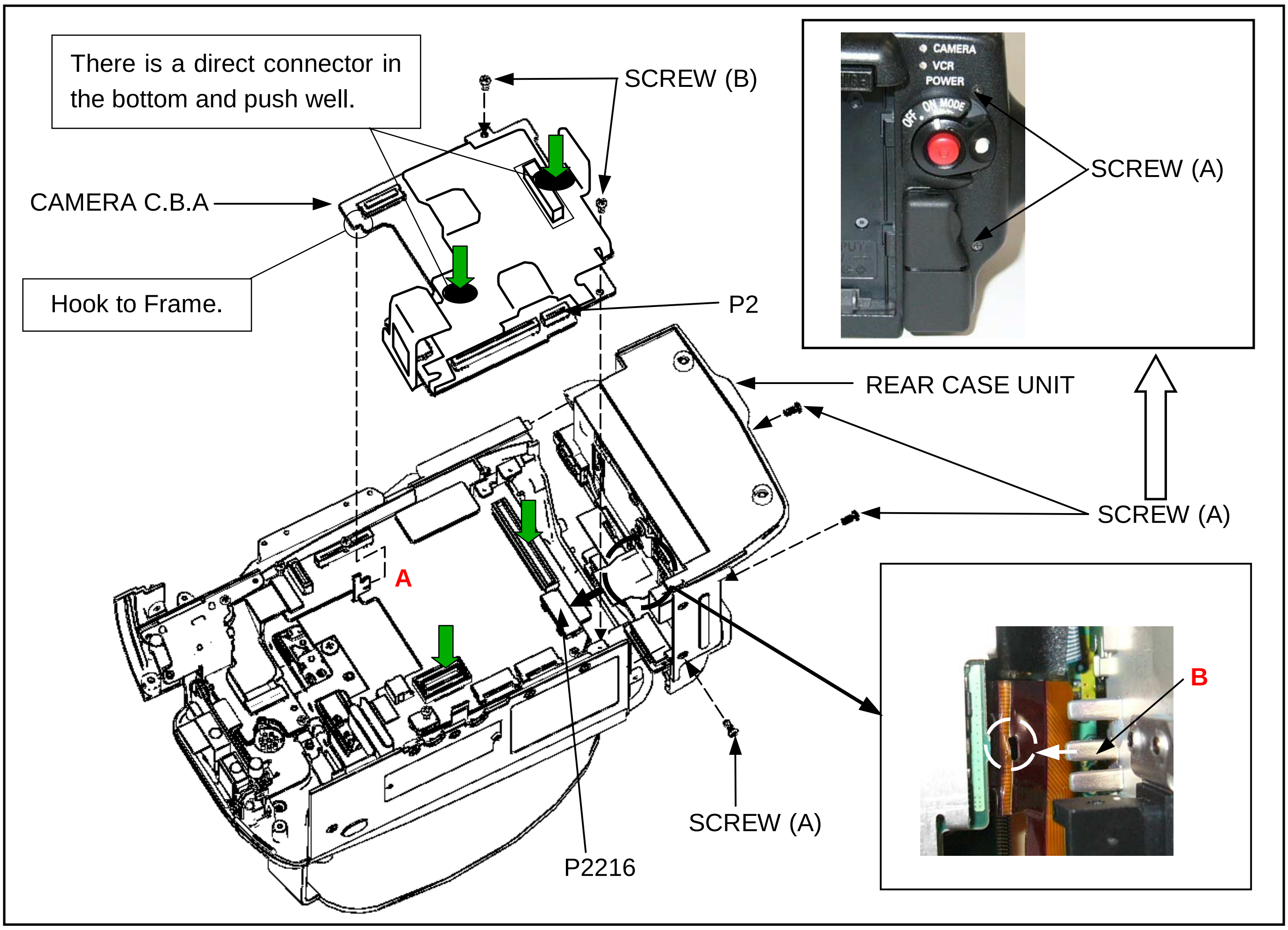

There is a direct connector in the bottom and push well.
SCREW (B)
CAMERA C.B.A
Hook to Frame.
P2
CAMERA
VCR
POWER
OFF
ON
MODE
SCREW (A)
REAR CASE UNIT
SCREW (A)
A
B
SCREW (A)
P2216

Figure 9-1

10. Removal of Cassette Cover Unit

1. Remove the MIC Case Unit.
2. Remove the Side case R Unit.
3. Remove the POWER C.B.A..
4. Remove the TOP VF Unit.
5. Remove the Front Case Unit.
6. Remove the Lens Unit.
7. Remove the Rear Case Unit and CAMERA C.B.A..
8. Unscrew the 2 screws (A) and remove the Cassette Cover Unit as shown in figure 10-1.

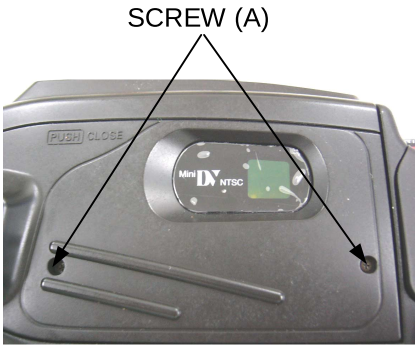

SCREW (A)
PUSH CLOSE
Mini DV NTSC

Figure 10-1

(Note in installation)

1. Pass flexible cable through the portion “A” as shown in figure 10-2.
2. Attach the “B” portion to “C” portion as shown in figure 10-2 and tighten the 2 screws (A).

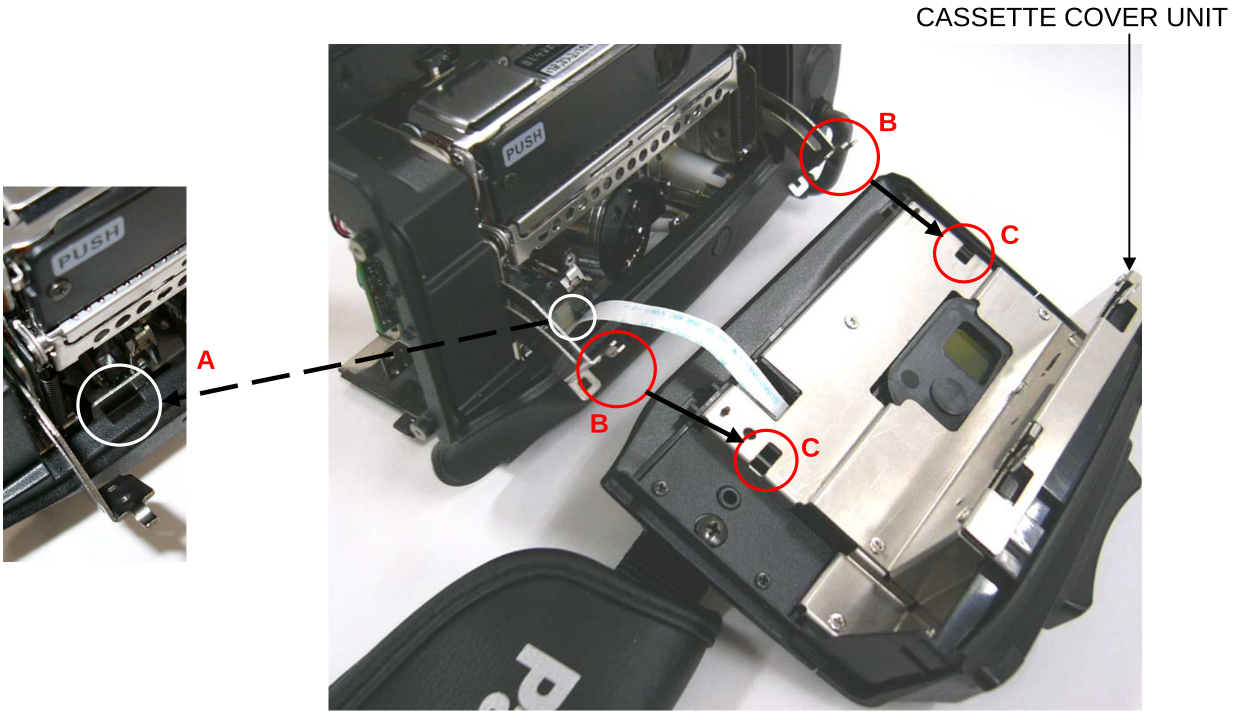

CASSETTE COVER UNIT
PUSH
A
B
C
B
C

Figure 10-2

11. Removal of Mechanism Unit & VTR C.B.A.

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Remove the POWER C.B.A..
4. Remove the TOP VF Unit.
5. Remove the Front Case Unit.
6. Remove the Lens Unit.
7. Remove the Rear Case Unit and CAMERA C.B.A..
8. Remove the Cassette Cover Unit.
9. Disconnect the connector P2219 and P2222 on VTR C.B.A. as shown in figure 11-1.
10. Disconnect the connector P2217 on VTR C.B.A. and P4101 on SIDE JACK C.B.A., then remove the flexible cable (A) as shown in figure 11-1.
11. Unscrew the 6 screws (A) and remove the Unit (Mechanism & VTR C.B.A.) as shown in figure 11-1.

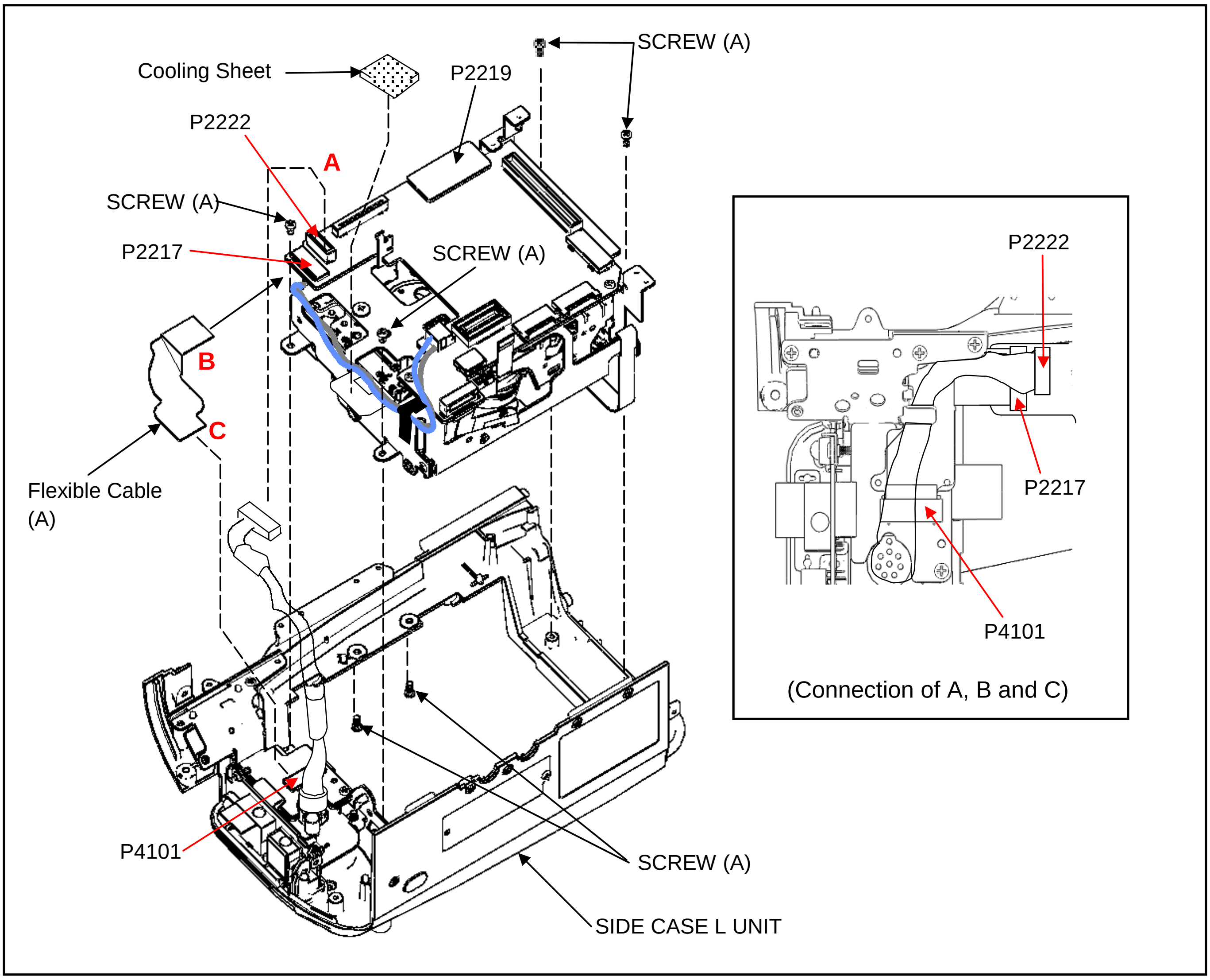

SCREW (A)
Cooling Sheet
P2219
P2222
A
SCREW (A)
P2217
SCREW (A)
B
C
Flexible Cable
(A)
P4101
SCREW (A)
SIDE CASE L UNIT
P2222
P2217
P4101
(Connection of A, B and C)

Figure 11-1

NOTE: MECH Attachment Frame requires replacement, make sure to move the Cooling Sheet to the new MECH Attachment Frame. See figure 11-1.

12. Disconnect the 7 connectors (A),(B),(C),(D),(E),(F) and (G) on VTR C.B.A. as shown in figure 11-2.

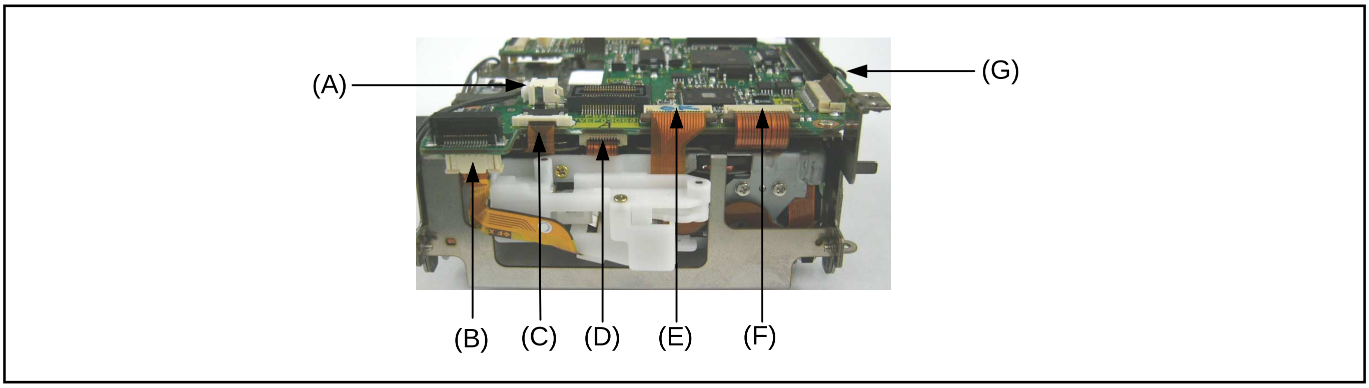


Figure 11-2

13. Unscrew the 2 screws (B) and remove the VTR C.B.A. as shown in figure 11-3.
14. Unscrew the 3 screws (C) and remove the Mechanism Unit from Mech. Attachment Frame Unit as shown in figure 11-3.
15. Unscrew the 2 screws (D) and remove the Garage Cover as shown in figure 11-3.

NOTE: In case a new Mechanism unit is installed, put the FPC Protection Sheet in the following position as shown in figure 11-3.

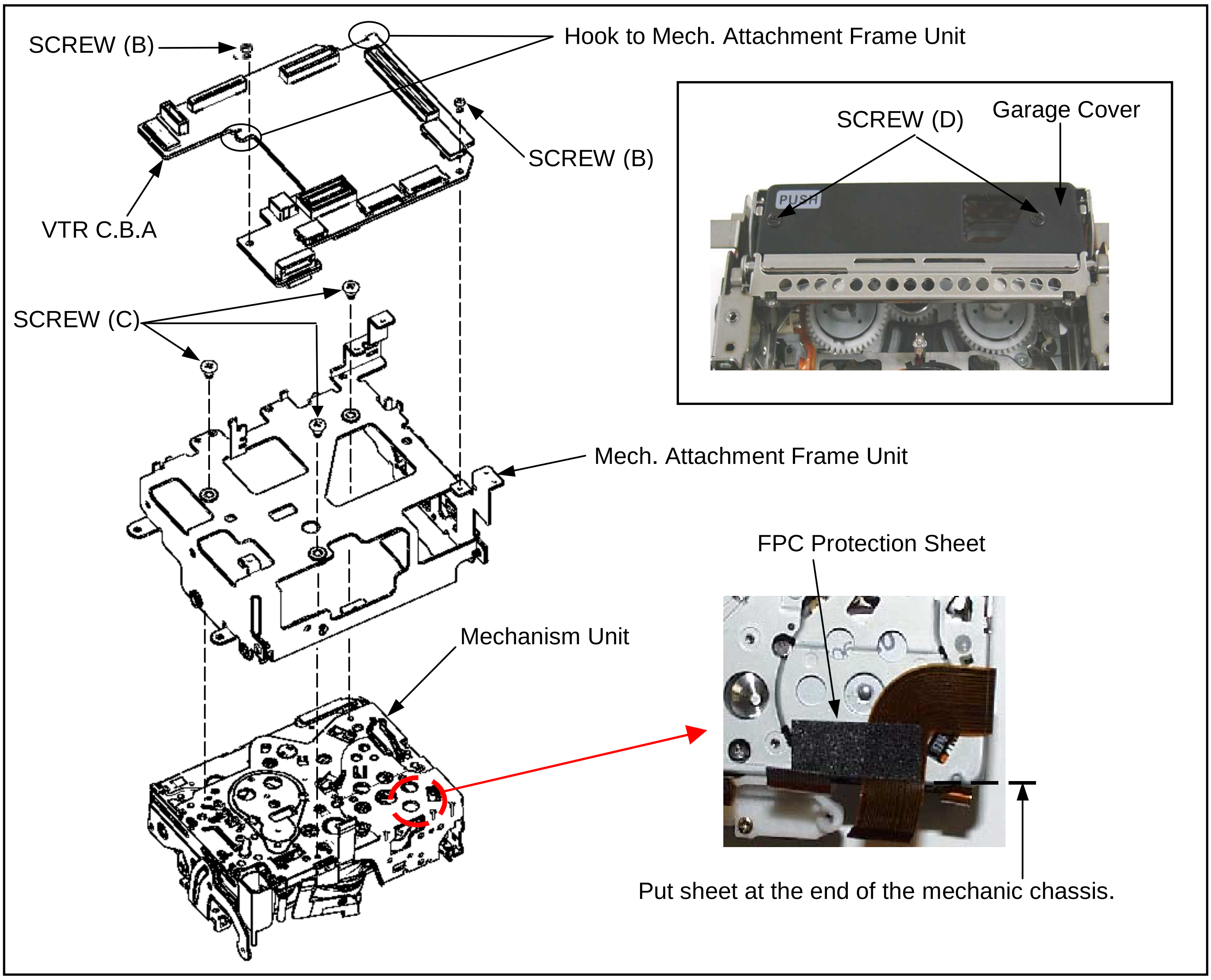

SCREW (B)
Hook to Mech. Attachment Frame Unit
SCREW (D)
Garage Cover
PUSH
SCREW (B)
VTR C.B.A
SCREW (C)
Mech. Attachment Frame Unit
FPC Protection Sheet
Mechanism Unit
Put sheet at the end of the mechanic chassis.

Figure 11-3

12. Removal of LCD Unit

1. Remove the MIC Case Unit.
2. Remove the Side Case R Unit.
3. Unscrew the 3 screws (A) and remove the HEAT SINK(SIDE R) as shown in figure 12-1.
4. Remove the FFC Protection Sheet as shown in figure 12-2.
5. Remove the Cooling Sheet to unscrew the screw (B) and unscrew the screw (B) and (C) as shown in figure 12-2.
6. Remove the HINGE COVER and unscrew the 2 screws (D) as shown in figure 12-3.
7. Disconnect connector P6404 on R SIDE C.B.A. and remove the LCD Unit as shown in figure 12-2.

(Note in installation)

1. When installing the FFC Protection Sheet, fully open the LCD Panel and Put on the original position as shown in figure 12-2.
2. Do not forget put on the Cooling Sheet after tightening the screw (B) as shown in figure 12-2.

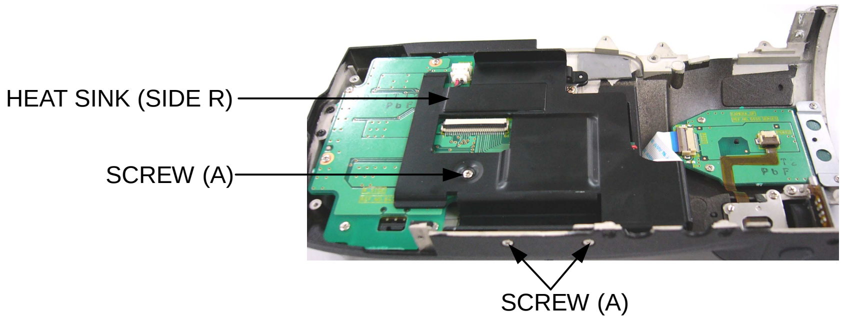

HEAT SINK (SIDE R)
SCREW (A)
SCREW (A)

Figure 12-1

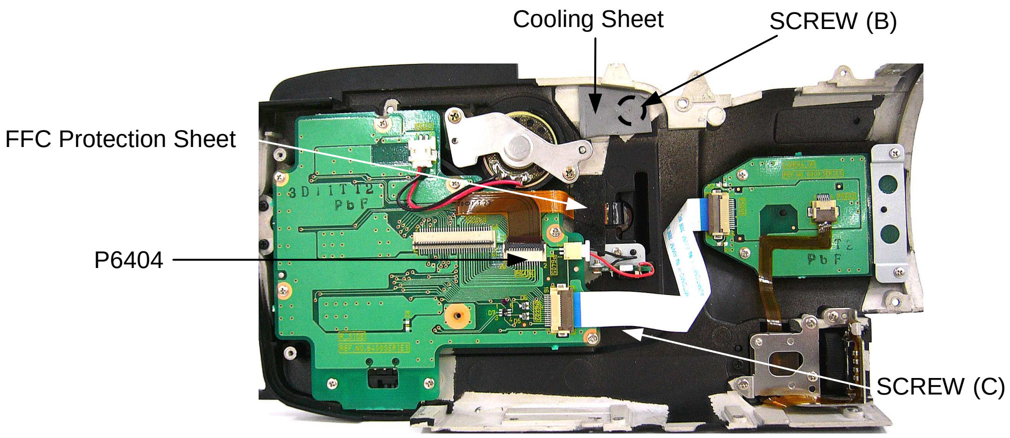

Cooling Sheet
SCREW (B)
FFC Protection Sheet
P6404
SCREW (C)

Figure 12-2

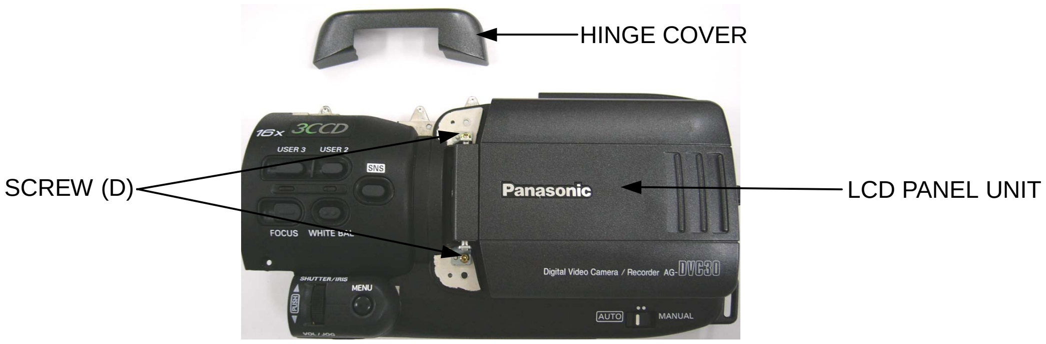

HINGE COVER
SCREW (D)
LCD PANEL UNIT
Panasonic

Figure 12-3

13. Removal of EVF Unit

1. Removal of MIC Case Unit.
2. Removal of Side Case R Unit.
3. Removal of TOP VF Unit.
4. Disconnect connector P1 on EVF CONNECT C.B.A. as shown in figure 13-1.
5. Unscrew the 4 screws (A) and remove the EVF Unit and EVF SLIDER Unit from EVF LCD HOLD Unit as shown in figure 13-2.
6. Unscrew the 3 screws (B) and remove the EVF SLIDE COVER as shown in figure 13-3.
7. Unscrew the 4 screws (C) and remove the EVF Unit from EVF SLIDER Unit as shown in figure 13-4.

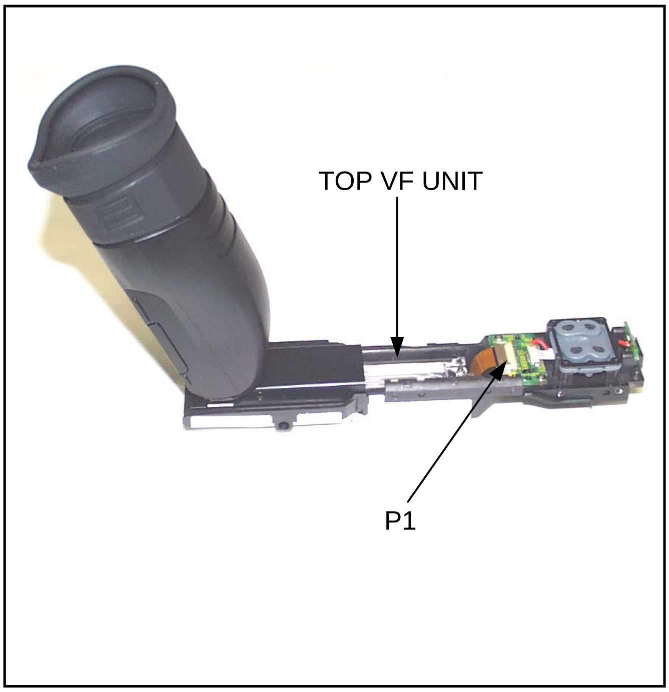

TOP VF UNIT
P1

Figure 13-1

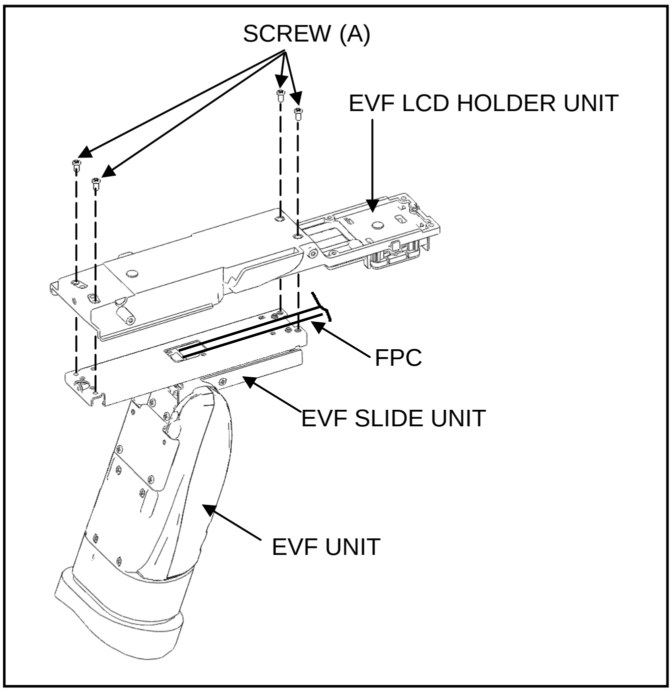

SCREW (A)
EVF LCD HOLDER UNIT
FPC
EVF SLIDE UNIT
EVF UNIT

Figure 13-2

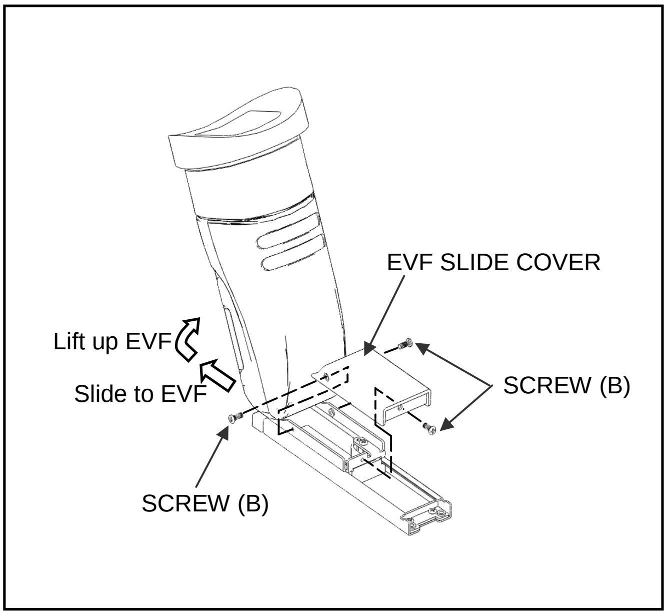

EVF SLIDE COVER
Lift up EVF
Slide to EVF
SCREW (B)
SCREW (B)

Figure 13-3

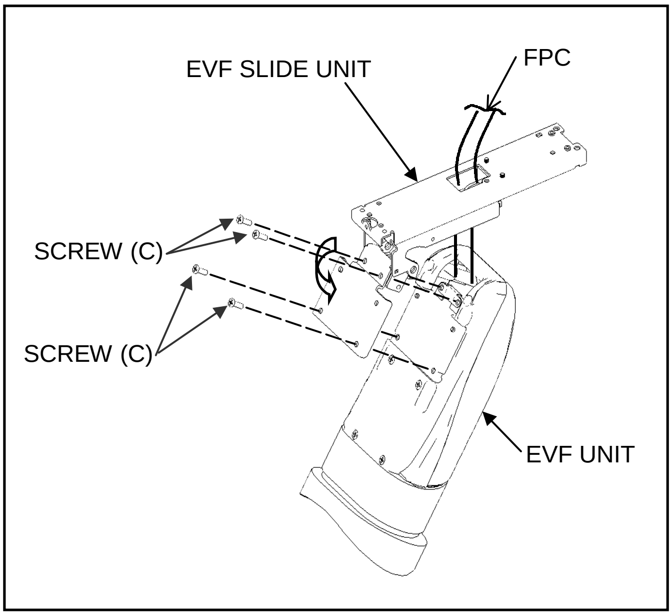

EVF SLIDE UNIT
FPC
SCREW (C)
SCREW (C)
EVF UNIT

Figure 13-4

SECTION 3

MECHANICAL ADJUSTMENT

CONTENTS

1. MECHANICAL ADJUSTMENT AND CONFIRMATION MECH-1
    1-1. Name of Tape Transportation MECH-1
    1-2. Tape Path Adjustment Procedure MECH-1
    1-3. Adjustment of S1 & T2 Post MECH-2
    1-4. Confirmation of EVR Tools MECH-2
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    1-6. Boot up the LISTA Software MECH-6
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    1-8. LISTA Sensitivity Detection MECH-8
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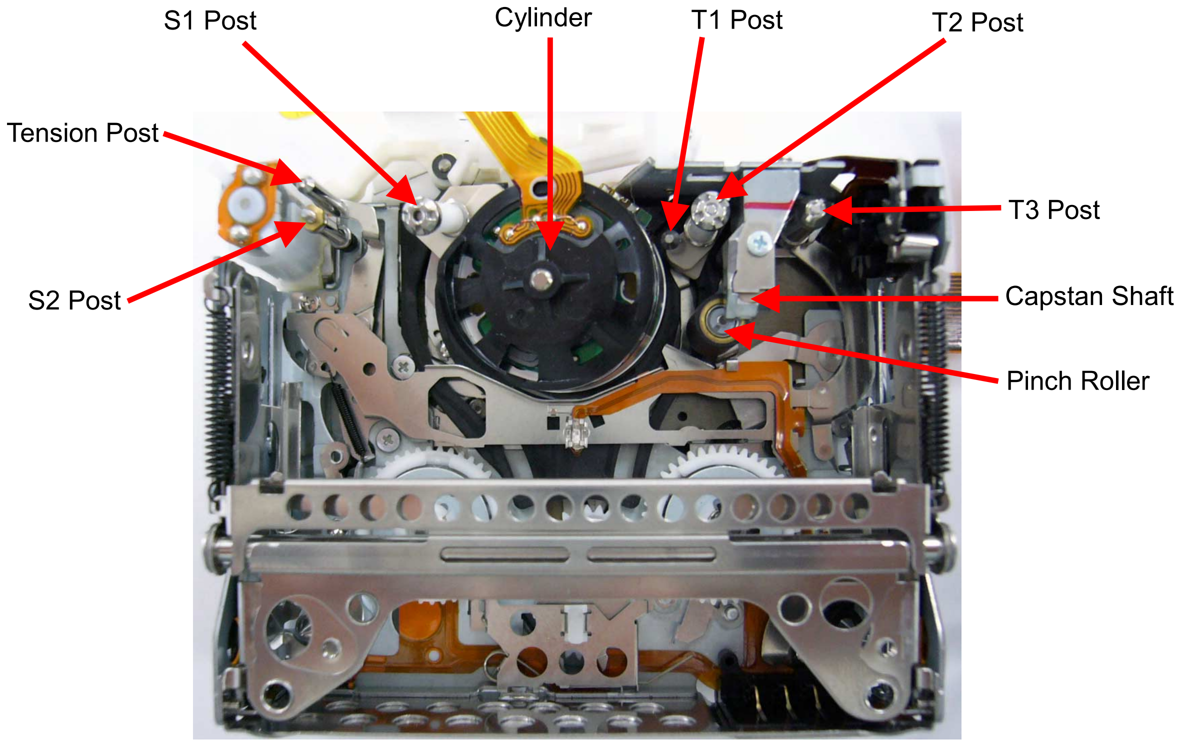
    2-1. Cleaning Roller Unit MECH-12

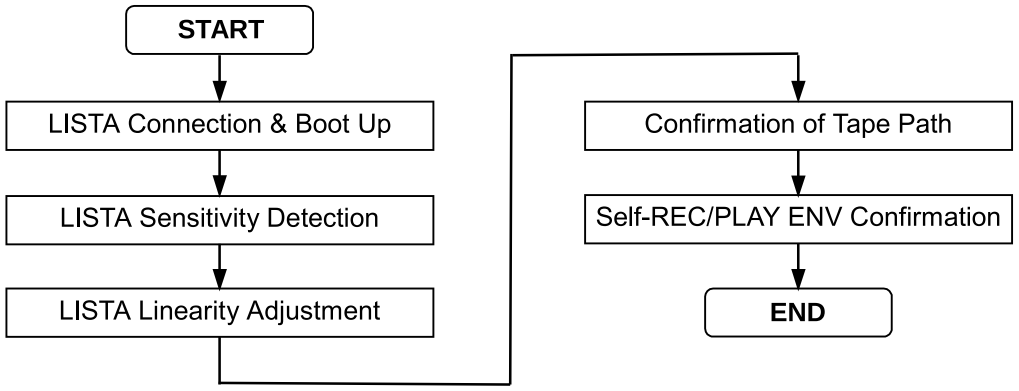
1. MECHANICAL ADJUSTMENT AND CONFIRMATION

1-1. Name of Tape Transportation


S1 Post
Cylinder
T1 Post
T2 Post
Tension Post
T3 Post
S2 Post
Capstan Shaft
Pinch Roller

LOADING condition

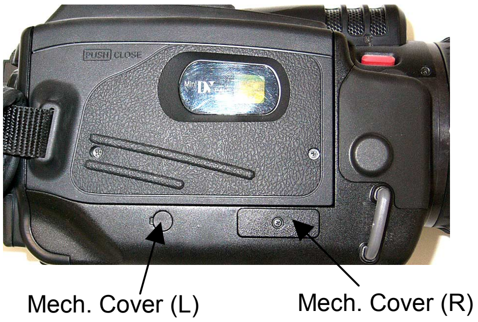
1-2. Tape Path Adjustment Procedure


START
LISTA Connection & Boot Up
LISTA Sensitivity Detection
LISTA Linearity Adjustment
Confirmation of Tape Path
Self-REC/PLAY ENV Confirmation
END

1-3. Adjustment of S1 & T2 Post

LISTA linearity and Envelope waveform are adjusted by S1 and T2 post. When removing the Mech. Cover (R) and (L), which is shown in the following figure, without opening a cassette cover, it is possible to do an adjustment.

Mech. Cover (R) side: S1 Post
Mech. Cover (L) side: T2 Post


Mech. Cover (L)
Mech. Cover (R)

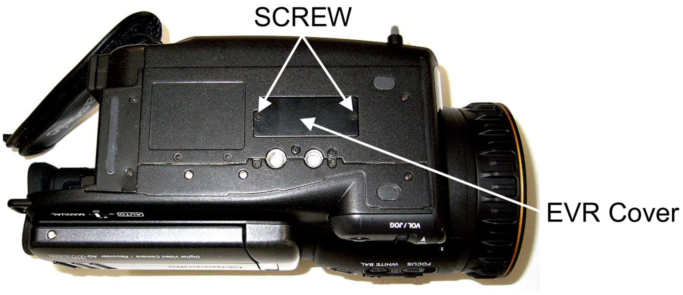
1-4. Connection of EVR Tools

To performing the confirmation of envelope (item “1-11. Self-REC/PLAY Envelope Confirmation”), the following tools are required.

NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	**NOTE:** VFK1309 also can be use
Connection Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	
DC Cable	VJA1128 or LSJA0310	1	For Unit
DC Cable	VJA0941	1	For Measuring Board
AC Adapter	-----	2	

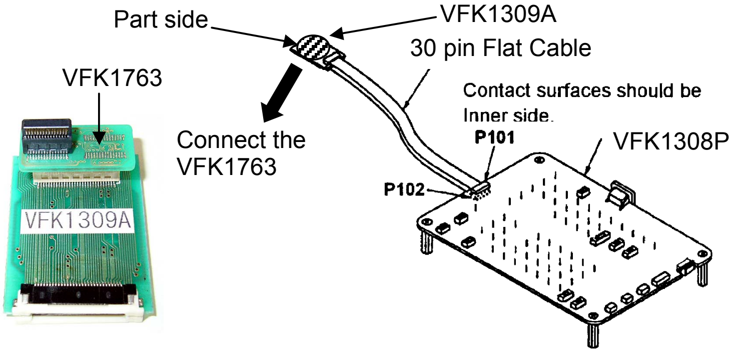
To confirm the envelope output, connect the Connection and Measuring Boards as described below.

1. Unscrew 2 screws and remove the EVR cover.


SCREW
EVR Cover

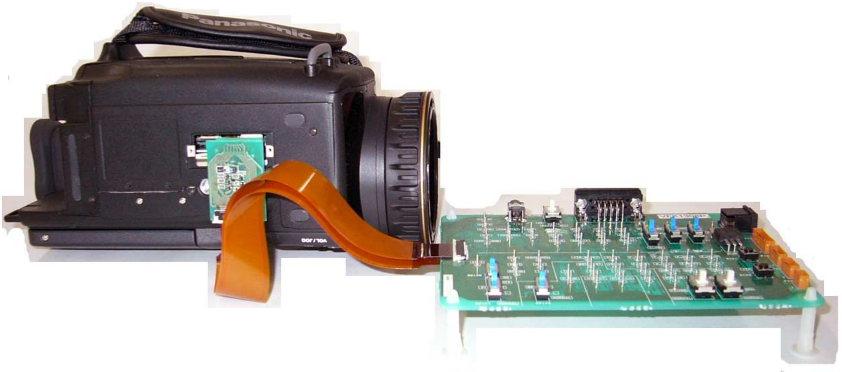
2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figure. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
The unit will not work if the connector is attached backwards.


Part side
VFK1309A
30 pin Flat Cable
VFK1763
Contact surfaces should be Inner side.
Connect the VFK1763
P101
VFK1308P
P102
VFK1309A

3. Connect the Connection Adapter (VFK1763) to EVR connector in Unit. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.

When the VFK1763 is connected the EVR connector, be careful that VFK1309A is attached in the right direction.

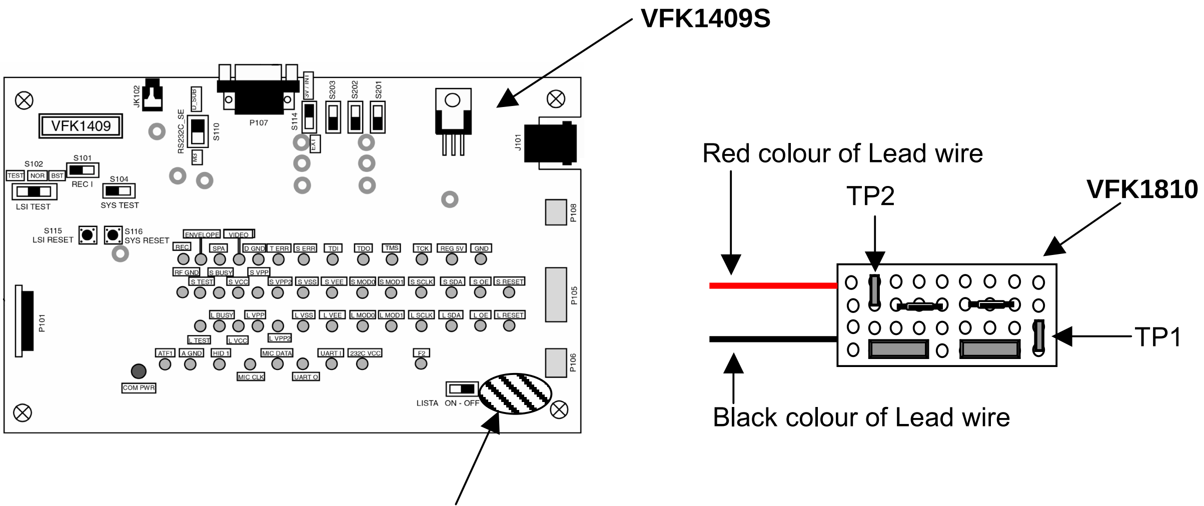


1-5. Connection of LISTA Adjustment System

TAPE	VFM3000EDS (DV LISTA)
M. EQ	Personal Computer (A/D Board should be installed.)
TOOL	VFK1481K (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board), VFK1308P (Measuring Board), VFK1409A (Measuring Board) ← **NOTE 2** VFK1317 (30P flat cable): 2pcs, VFK1309A (EVR connector board) ← **NOTE 1** VFK1763 (Connection Adapter), VJA0941 (DC cable): 2pcs, 9P RS232C cross cable.
TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)

NOTE 1:
VFK1309 and VFK1309A can be used to perform LISTA adjustment. The VFK1309A is only required for LCD adjustment (refer to item 1 of Electrical adjustment procedure in section 4.)

NOTE 2:
If you already have VFK1409S (Measuring board), it can be used to perform LISTA adjustment with VFK1810. Please refer to next explanation for installation of VFK1409S.


VFK1409S
VFK1409
S102
TEST
NOR
BST
S101
REC I
S104
LSI TEST
SYS TEST
S115
LSI RESET
S116
SYS RESET
RS232C_SE
S110
P107
S114
S203
S202
S201
J101
P108
P105
P106
P101
COM PWR
LISTA ON - OFF
Red colour of Lead wire
TP2
VFK1810
TP1
Black colour of Lead wire

1. Install the two test points of VFK1810 to through hole in this area and solder it at test point at foil side of VFK1409S to fixed VFK1810.

2. Insert the two lead wires of VFK1810 to through hole.

3. Solder the red color of lead wire to pin1 of P108 on foil side on VFK1409S.

4. Solder the black color of lead wire to pin3 of P106 on foil side on VFK1409S.

1. Set the switches on the Measuring Board as shown below.

<VFK1308P>

SW NAME& No.	Setting Position
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	L
BST TEST (SW104)	NORMAL
SW105	H
SW106	OFF
SW107	CENTER position
SW108	H
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

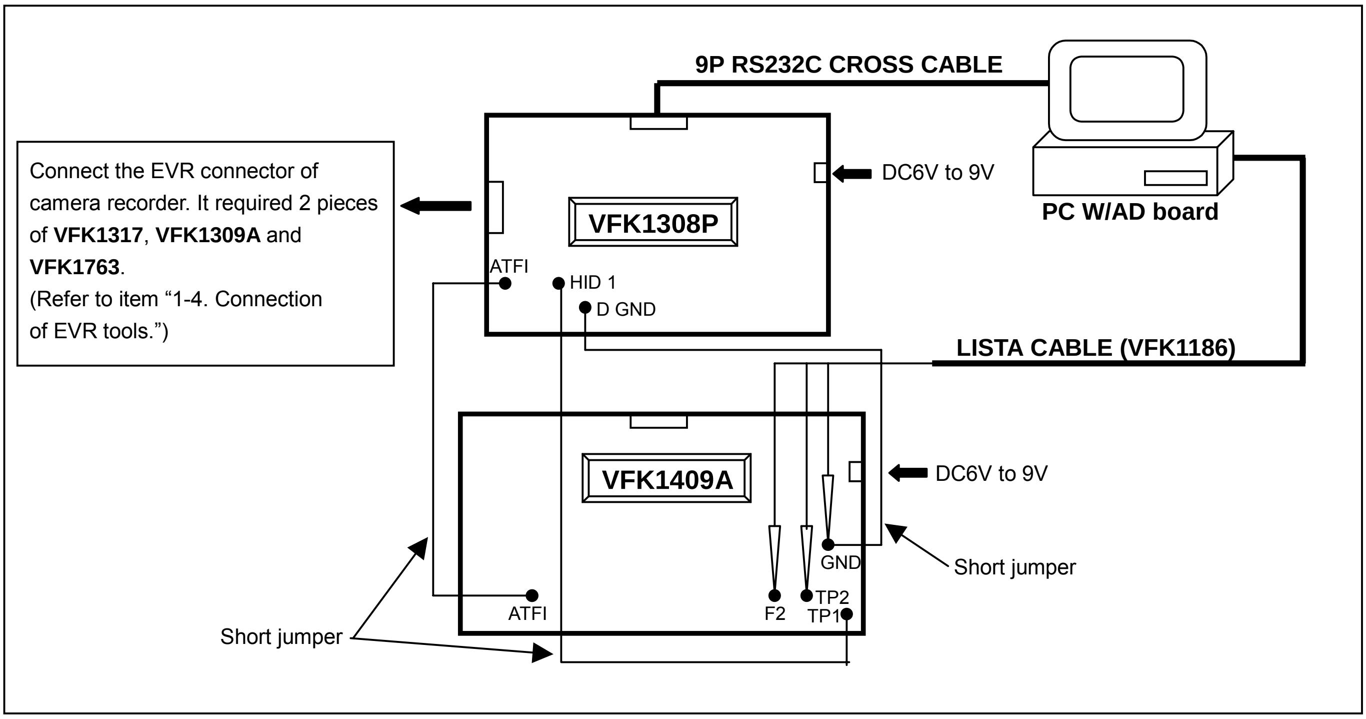
<VFK1409S or VFK1409A>

SW NAME& No.	Setting Position
RS232C SEL (S110)	D-SUB
REC I (S101)	NOR
LSI TEST (S102)	NOR
S104	NOR
S114	EXT
S201	Right side
S202	Right side
S203	Right side
LISTA ON-OFF	ON

2. Connect a PC, the Measuring Board and the camera recorder as shown below.

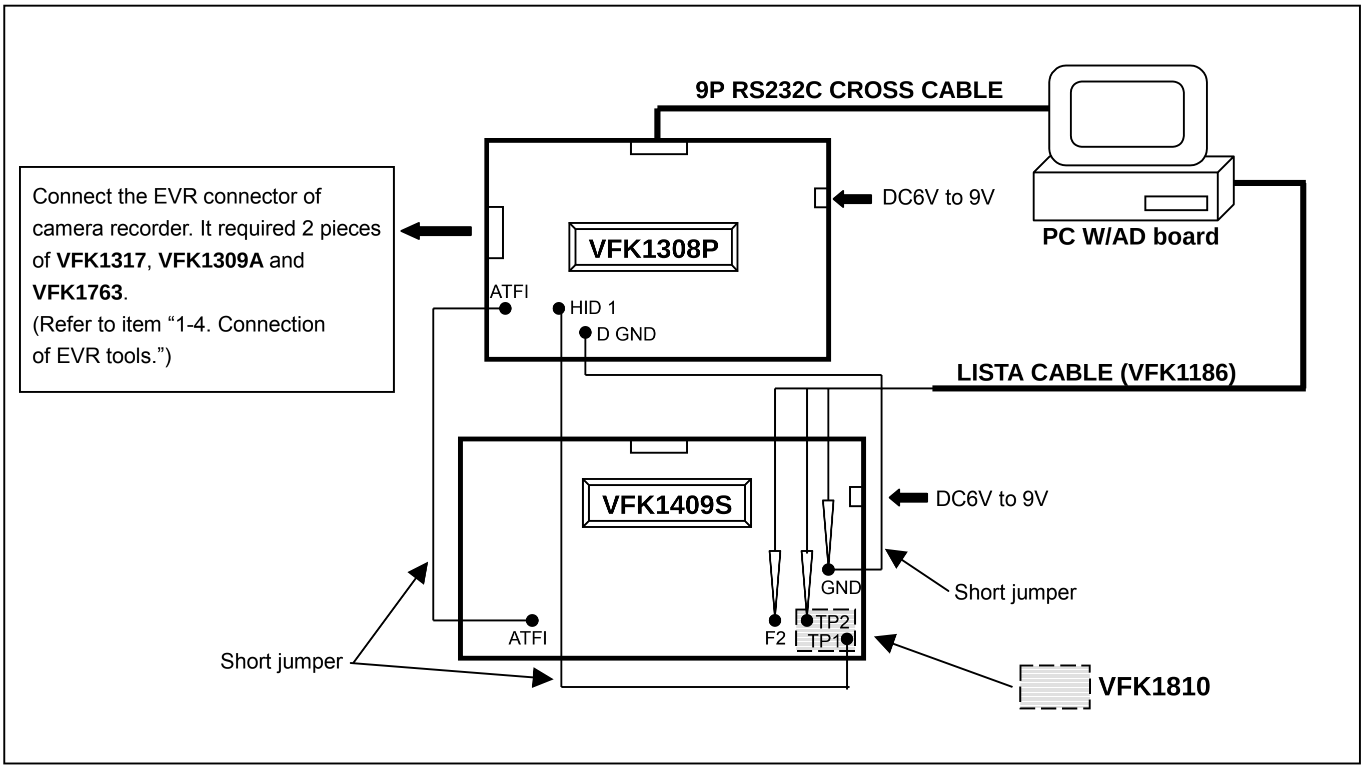
<CONNECTION>

1) In case of use VFK1409A


9P RS232C CROSS CABLE
DC6V to 9V
PC W/AD board
VFK1308P
ATFI
HID 1
D GND
LISTA CABLE (VFK1186)
VFK1409A
DC6V to 9V
GND
Short jumper
TP2
F2
TP1
ATFI
Short jumper

Connect the EVR connector of camera recorder. It required 2 pieces of **VFK1317**, **VFK1309A** and **VFK1763**.
(Refer to item “1-4. Connection of EVR tools.”)

2) In case of use VFK1409S


9P RS232C CROSS CABLE
DC6V to 9V
PC W/AD board
VFK1308P
ATFI
HID 1
D GND
LISTA CABLE (VFK1186)
VFK1409S
DC6V to 9V
GND
Short jumper
TP2
F2
TP1
ATFI
Short jumper
VFK1810

Connect the EVR connector of camera recorder. It required 2 pieces of **VFK1317**, **VFK1309A** and **VFK1763**.
(Refer to item “1-4. Connection of EVR tools.”)

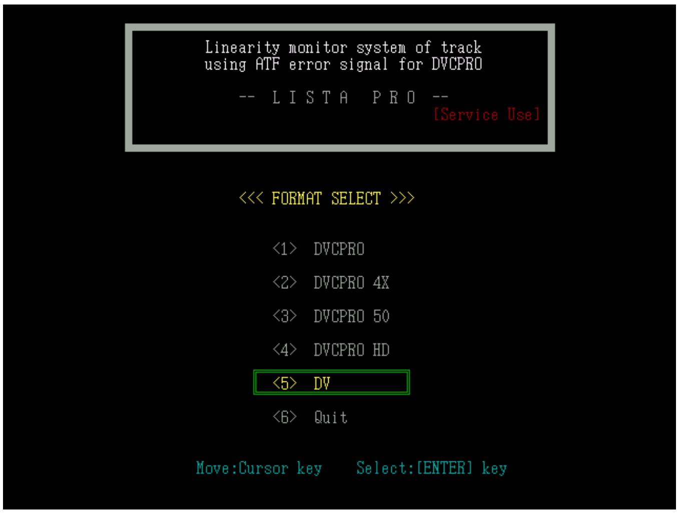
3. Connect the clips of the LISTA cable to test point on the Measuring Board. (Refer to Items **“Sensitivity Detection”** and **“Linearity Adjustment”**.)

1-6. Boot up the LISTA Software

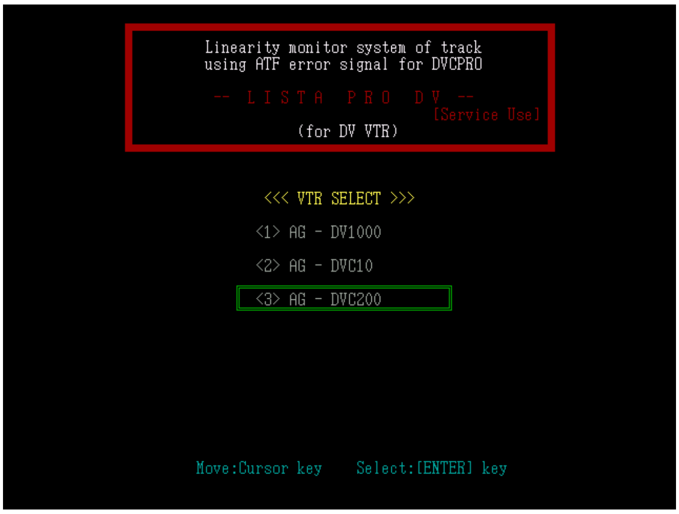
1. Boot up the LISTA software on DOS mode.

< How to Install and Boot Up >
Make a directory like C: LISTA and copy all files in the VFK1481K(LISTA Software) to it on PC.
Type **"LISTA"** and press **ENTER** key, then boot up the LISTA software VFK1481K.

2. After boot up the LISTA software, **<<< FORMAT SELECT >>>** display appears. Select the item **"DV"**.
   After select the format, **<<< VTR SELECT >>>** display appears, and select the model **"AG-DVC200"**.



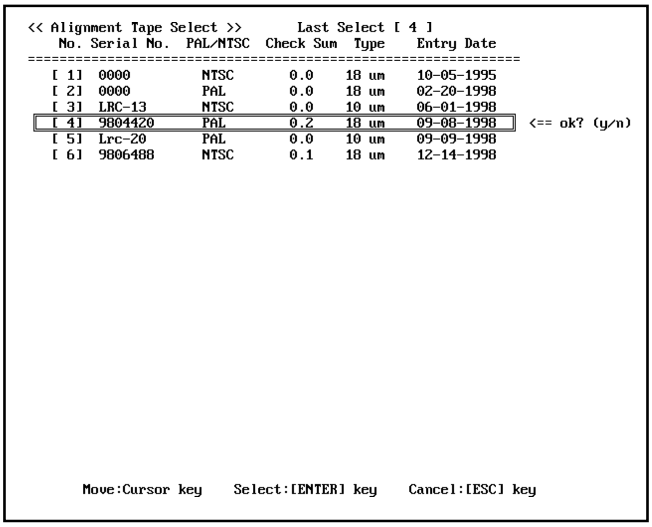
```
Linearity monitor system of track
using ATF error signal for DVCPRO

-- L I S T A   P R O --
                [Service Use]

<<< FORMAT SELECT >>>

<1>  DVCPRO
<2>  DVCPRO 4X
<3>  DVCPRO 50
<4>  DVCPRO HD
<5>  DV
<6>  Quit

Move:Cursor key    Select:[ENTER] key
```



```
Linearity monitor system of track
using ATF error signal for DVCPRO

-- L I S T A   P R O   D V --
                [Service Use]
        (for DV VTR)

<<< VTR SELECT >>>
<1> AG - DV1000
<2> AG - DVC10
<3> AG - DVC200

Move:Cursor key    Select:[ENTER] key
```

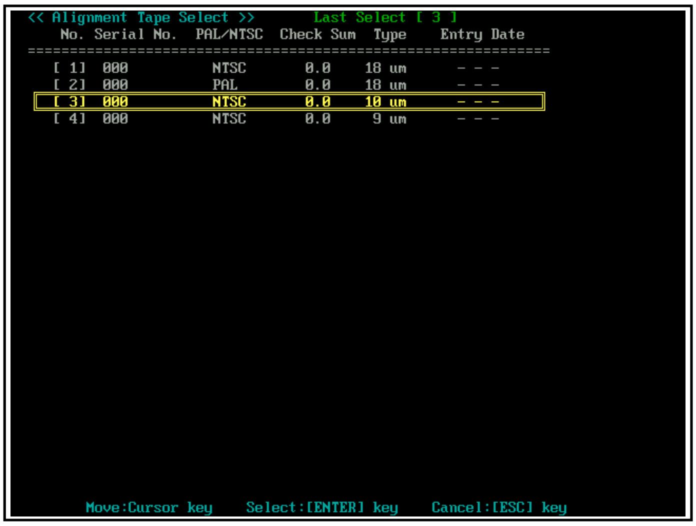
3. Next, select the Serial number of the Alignment tape on the screen. In case of LISTA software is not entered with data of alignment tape, press the ESC key, then main menu is displayed on the screen. And select the item **"<4> Alignment Tape"** for entry the data on the attachment sheet, which is enclosed with alignment tape.
4. In case of LISTA software has entered data of alignment tape, select the serial number of Alignment tape, then message appears **"ok? (y/n)"** on the screen. And press **" Y "** or **" ENTER "** key, then LISTA main menu is displayed on screen.

< In case of Alignment Tape entered already >



```
<< Alignment Tape Select >>       Last Select [ 4 ]
   No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
============================================================
  [ 1]  0000        NTSC       0.0     18 um    10-05-1995
  [ 2]  0000        PAL        0.0     18 um    02-20-1998
  [ 3]  LRC-13      NTSC       0.0     10 um    06-01-1998
  [ 4]  9804420     PAL        0.2     18 um    09-08-1998   <== ok? (y/n)
  [ 5]  Lrc-20      PAL        0.0     10 um    09-09-1998
  [ 6]  9806488     NTSC       0.1     18 um    12-14-1998

      Move:Cursor key    Select:[ENTER] key    Cancel:[ESC] key
```

< In case of Alignment Tape does not entered >



```
<< Alignment Tape Select >>       Last Select [ 3 ]
   No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
============================================================
  [ 1]  000         NTSC       0.0     18 um     - - -
  [ 2]  000         PAL        0.0     18 um     - - -
  [ 3]  000         NTSC       0.0     10 um     - - -
  [ 4]  000         NTSC       0.0      9 um     - - -

      Move:Cursor key    Select:[ENTER] key    Cancel:[ESC] key
```

1-7. How to Enter the Alignment Tape Data

1. Select the item **“<4> Alignment Tape”** on the LISTA main menu.
2. Select the item **“<2> ENTRY”** on the alignment menu.
3. After the screen displays the screen of **<<Alignment Tape Data Entry>>**, first input the Serial Number follow the printed number on the tape label. And input the number **“0”** or **“1”** for selected the PAL/NTSC. And after that enter the tape type, input **“0”** for DVCPRO, input **“1”** for DV or input **“2”** for HDLP.
4. After selecting the tape type, the frame for inputting the DATA and CHECK SUM appears on the screen. Input the numerical value in numerical order on the data sheet, which is enclosed with alignment tape. If the wrong number is inputted, the error message on the screen, then confirm that data on the sheet.
5. After the data entry, the screen returns to **“LISTA MAIN”** menu. Confirm the serial number of the alignment tape.

<< Alignment Tape Data Entry >> **Serial No. Lrc-20 (NTSC) 10µm**

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

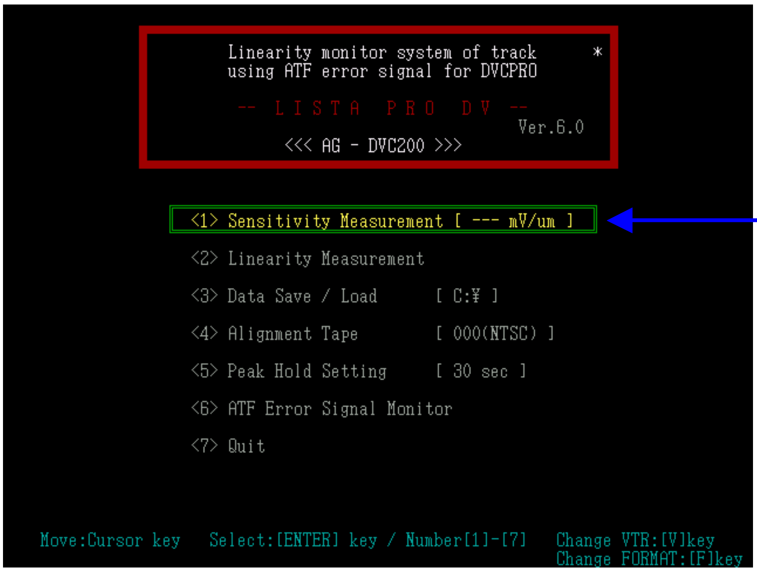
[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS]	- 0.6

NOTE: This is sample only, you must enter information from your alignment tape. Each tape is different.

1-8. LISTA Sensitivity Detection

TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
SPEC.	40 mV / µm to 120 mV / µm


Linearity monitor system of track
using ATF error signal for DVCPRO *
-- L I S T A P R O D V --
Ver.6.0
<<< AG - DVC200 >>>
<1> Sensitivity Measurement [--- mV/um]
<2> Linearity Measurement
<3> Data Save / Load [C:¥]
<4> Alignment Tape [000(NTSC)]
<5> Peak Hold Setting [30 sec]
<6> ATF Error Signal Monitor
<7> Quit
Move:Cursor key
Select:[ENTER] key / Number[1]-[7]
Change VTR:[V]key
Change FORMAT:[F]key

Select at Sensitivity Detection.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button to open the **“VCR FUNCTION MENU”**.
4. Open the **“8. ADJUST MENU”** in **“VCR FUNCTION MENU”**.
5. Select the item **“ATF GAIN”** and press the MULTI-DIAL.
6. Message **“NOW SERVO ADJUST PUSH MENU TO RETURN”** appears on screen and press the PLAY button to playback the tape.
7. Press MENU button to return to **“ADJUST MENU”** screen.
8. Select item **“<1> Sensitivity Measurement”** on the LISTA main menu, and press **“ENTER”**.
9. Then the tape is played back (tape speed : 101.2%) automatically, and message **“1.2% Speed…”** appears on the screen.
10. Press the ENTER key, and then start measurement of the sensitivity value.
11. Confirm that the sensitivity value is with in specification, after the message **“<<Sensitivity Measurement Finish>>”**.

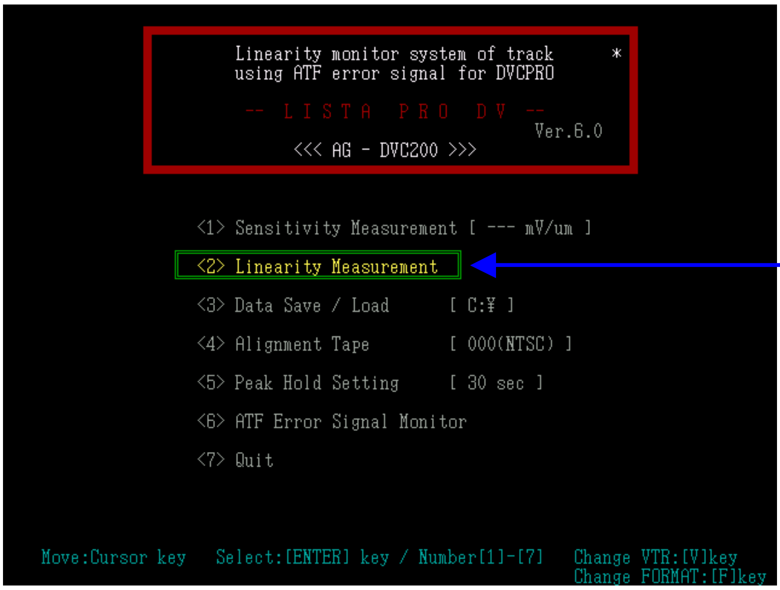
<<Sensitivity Measurement Finish>>

Sensitivity	**72.95 (mV/um)**
Sens.1	65.43 (mV/um)
Sens.1	85.48 (mV/um)

Confirm that the value of Sens.Value1 and Sens.Value2 in specification

1-9. LISTA Linearity Adjustment

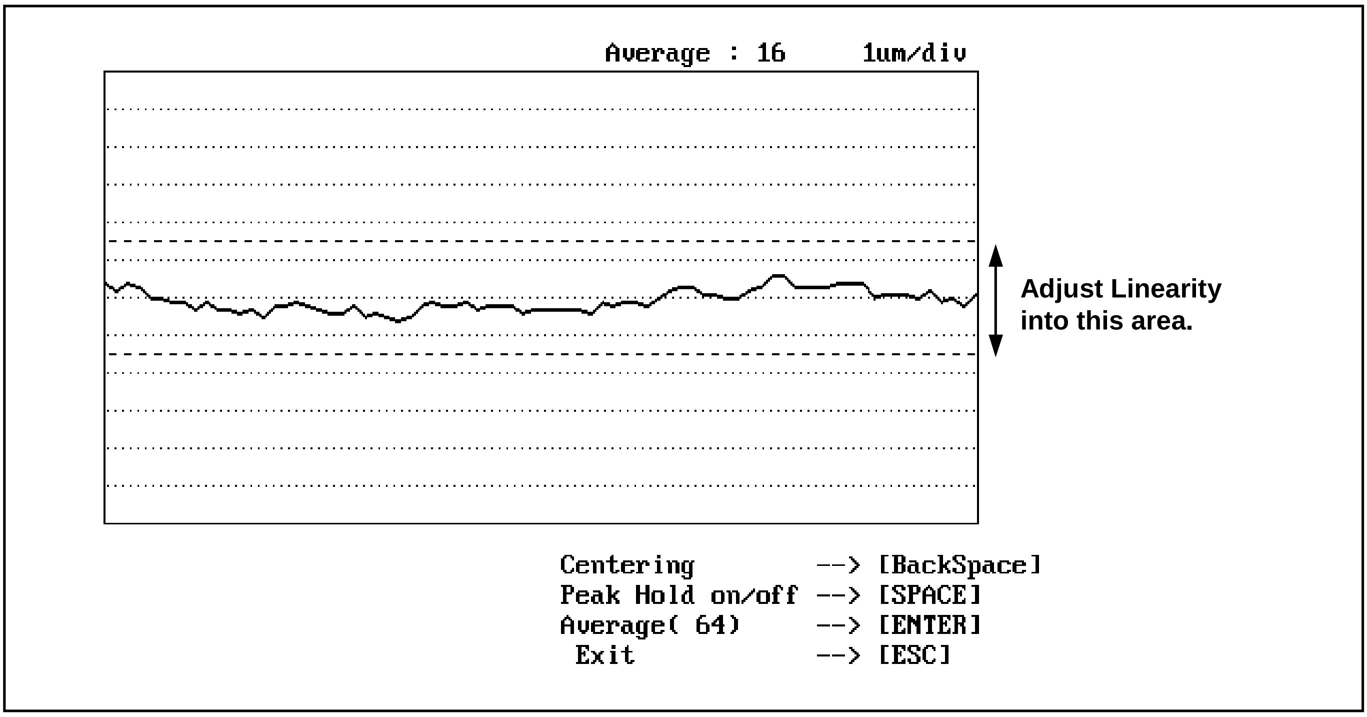
TP	In case of use VFK1409A **F2** : ATF-ERR (VFK1409A), **TP2** : TRG/HSW (VFK1409A), **GND** : GND (VFK1409A) In case of use VFK1409S **F2** : ATF-ERR (VFK1409S), **TP2** : TRG/HSW (VFK1810), **GND** : GND (VFK1409S)
ADJ.	S1 and T1 Post Height
VTR MODE	PLAY
ADJ. MODE	Refer to below explanation
TAPE	VFM3000EDS (DV LISTA)
TOOL	VFK1899 : Post Driver
SPEC.	Linearity : less than 3µm



```
Linearity monitor system of track          *
using ATF error signal for DVCPRO

-- L I S T A   P R O   D V --
                                   Ver.6.0
<<< AG - DVC200 >>>

<1> Sensitivity Measurement [ --- mV/um ]

<2> Linearity Measurement

<3> Data Save / Load        [ C:¥ ]

<4> Alignment Tape          [ 000(NTSC) ]

<5> Peak Hold Setting       [ 30 sec ]

<6> ATF Error Signal Monitor

<7> Quit

Move:Cursor key   Select:[ENTER] key / Number[1]-[7]   Change VTR:[V]key
                                                       Change FORMAT:[F]key
```

Select at Linearity Measurement.

1. Set the camera recorder to VCR mode.
2. Insert the DV Alignment Tape (VFM3000EDS) to the camera recorder.
3. Press the MENU button to open the **“VCR FUNCTION MENU”**.
4. Open the **“8. ADJUST MENU”** in **“VCR FUNCTION MENU”**.
5. Select the item **“LINEARITY”** and press the MULTI-DIAL.
6. Message **“NOW SERVO ADJUST PUSH MENU TO RETURN”** is appears on screen and press the PLAY button to playback the tape.
7. Press MENU button to return to **“ADJUST MENU”** screen.
8. Select item **“<2> Linearity Measurement”** on the LISTA main menu, and press **“ENTER”**, then the Linearity Waveform appears.
9. When the waveform as shown in figure below is displayed on the screen, press the **“BS (Back Space)”** key for display the waveform positioned at the center of the scale on screen. Adjust S1 and T1 post height by using the post driver so that the linearity waveform is becomes flat as possible, and it should be within specification.
   (Adjust linearity waveform in the red dot line on the screen.)

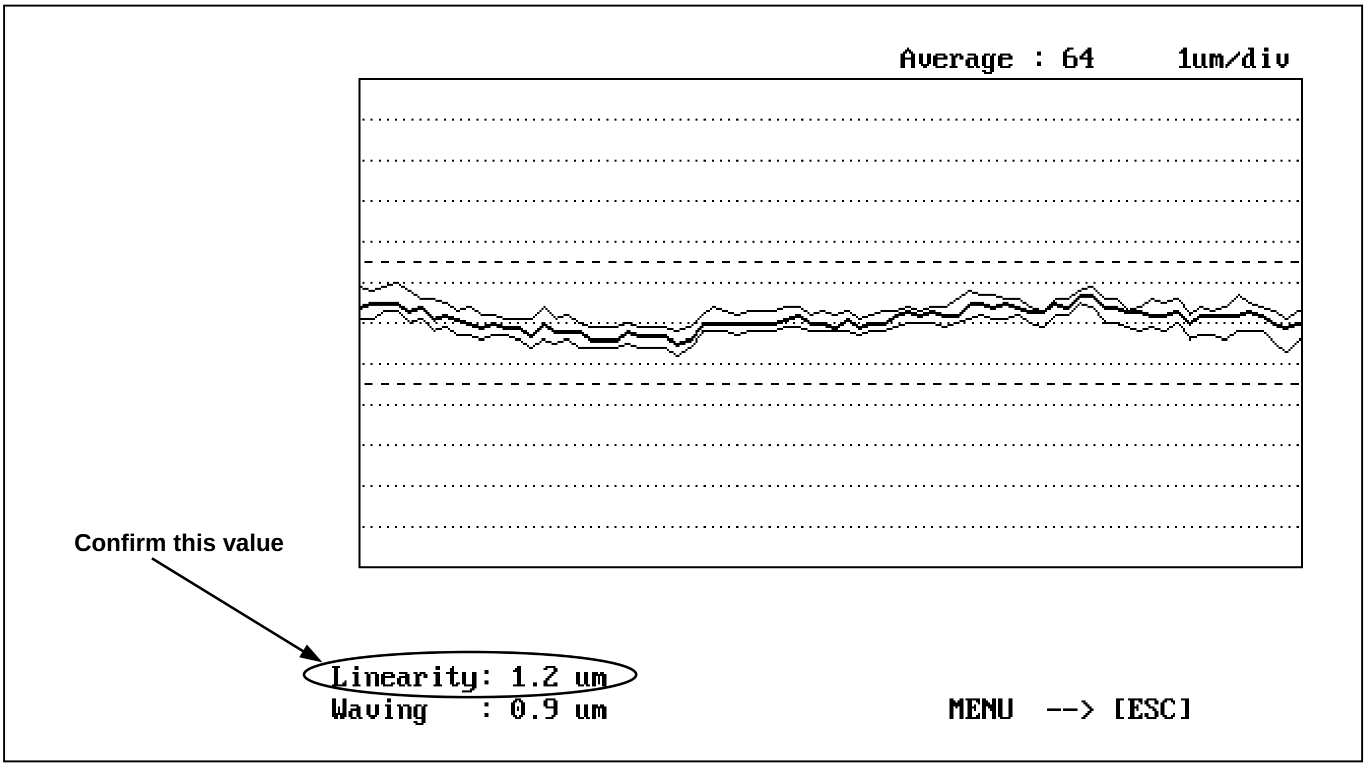


```
Average : 16     1um/div

Centering        --> [BackSpace]
Peak Hold on/off --> [SPACE]
Average( 64)     --> [ENTER]
 Exit            --> [ESC]
```

Adjust Linearity into this area.

POINT :
The left side of the waveform (entrance side) is adjusted by the height of S1 post and the right side of the waveform (exit side) is adjusted by the height of T2 post.
When the post driver is removed from upper part of post, linearity waveform is changed.
After finishing this adjustment, eject the tape and insert the tape again to confirm that the shape of the linearity waveform has not changed.

10. Press **"SPACE"** key to perform the Peak Hold in 30 seconds when linearity is displayed.
11. After finishing the Peak Hold, press **"SHIFT"** and " **}** " key simultaneously on the Key Board, then the numerical values of **"Linearity"** and **"Waving"** is displayed on left lower portion of screen. And confirm the numerical value of **"Linearity"** is in the specification. If the **"Linearity"** is out of specification, adjust height of S1 and T1 post.
12. After this measurement is finished, press the ESC key to return to the main menu.



```
Average : 64     1um/div

Linearity: 1.2 um
Waving   : 0.9 um                    MENU  --> [ESC]
```

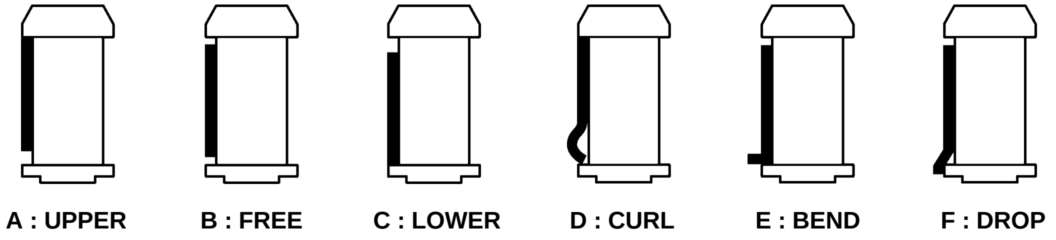
Confirm this value

1-10. Tape Pass Confirmation

1. Play back the Blank tape and confirm that the tape passes without curling at the upper and lower guides of the following posts in the Play modes as shown in below table.

NOTE: The tape pass can not be confirm when the mechanism unit is install in unit. Connect the mechanism unit by the extender cable and confirmed.

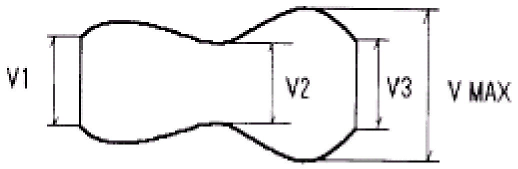
Post Name	**Tape limit (refer to figure)**					
	A	**B**	**C**	**D**	**E**	**F**
S1 post	NG	NG	OK	NG	NG	NG
S2 post	OK	OK	NG	NG	NG	NG
T2 post	OK	NG	NG	NG	NG	NG
T3 post	NG	OK	OK	NG	NG	NG



2. Confirm that the tape damage does not occur on tape at S1, T1 and T2 post by loading and unloading.
3. If curl and tape damage occurred at S1 and T2 post, adjust height of post by post driver.

1-11. Self-REC/PLAY Envelope Waveform Confirmation

1. Connect the EVR tools (refer to item ”1-4. Connection of EVR Tools”).
2. Connect the oscilloscope to the Measuring Points [ENVELOPE] and [HID] as a trigger on the Measuring Board (VFK1308P).
3. Record a color bar signal.
4. Play back the just recorded portion and confirm that the envelope is within the following specifications.



V1/V max. 0.9
V2/V max. 0.9
V3/V max. 0.9

Make as flat as possible

5. Confirm that the envelope is within the following specification, when the mode is changed as follows.
   STOP→PLAY: Envelope appears completely within 2 seconds and stable.
   REV→PLAY : Envelope appears completely within 2 seconds.
6. Confirm that the shape of envelope is diamond style.
7. If it is out of the specification, adjust height of the S1 and T2 Post.

2. MECHANICAL PARTS REPLACEMENT PROCEDURE

2-1. Cleaning Roller Unit

(Removal)

1. Remove the Mechanism Unit.
2. Unhook the hooking portion (C) of Cleaning Roller Unit to remove fixed Flexible cable.
3. Unscrew the 2 screws (A) and (B), then remove the Cleaning Roller Unit.

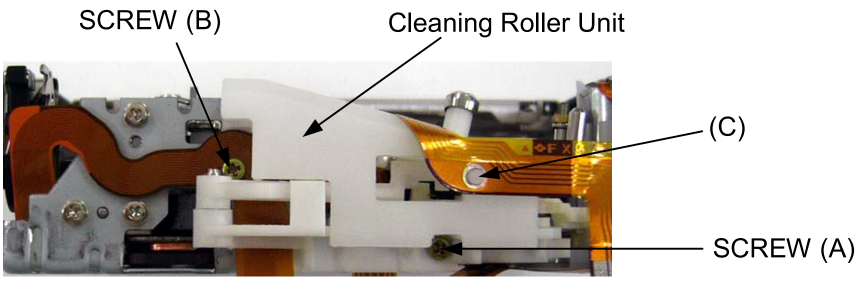


Figure A

(Installation)

1. Hook the portion (B) of Cleaning Roller Unit to portion (A) of Mechanism Chassis and install the Cleaning Roller Unit. Then be careful the Release Arm does not run onto the part at end of sub chassis (C) as shown in figure B.

NOTE: Supply the voltage to loading motor and the Cleaning Roller Unit is installed in the mechanical position as shown in figure (B) to simple installation (No problem it installation in loading complete position).

2. Tighten the Screw (A) and (B) as shown in figure A. When tighten the screw (B), flexible cable also tighten up together as shown in figure A.
3. The projection (C) of Cleaning Roller Unit should be matched to the hole of the flexible cable as shown in figure A.

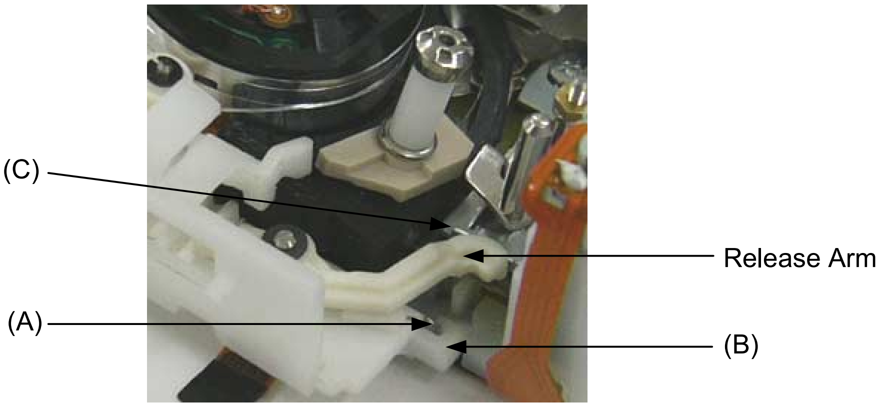


Figure B

(Confirmation of Operation)

1. To confirm that the Cleaning Roller operates normally on the Mechanism Unit, supply the voltage to loading motor and confirm that the Cleaning Roller touches the Cylinder in loading operation.
2. To confirm that the Cleaning Roller operates normally after the Mechanism Unit is installed to Unit, remove the Mech. Cover (R) on Cassette Cover to confirm the Cleaning Roller in window as shown in figure (C). Insert the cassette tape to Unit and confirm that the Cleaning Roller touches the Cylinder in loading operation.

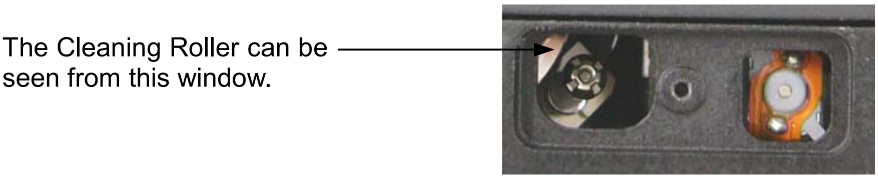


Figure C

SECTION 4

ELECTRICAL ADJUSTMENT

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ELECTRICAL ADJUSTMENT PROCEDURE

1. ADJUSTMENT SYSTEM

When performing the electrical adjustment, the following tools are required.

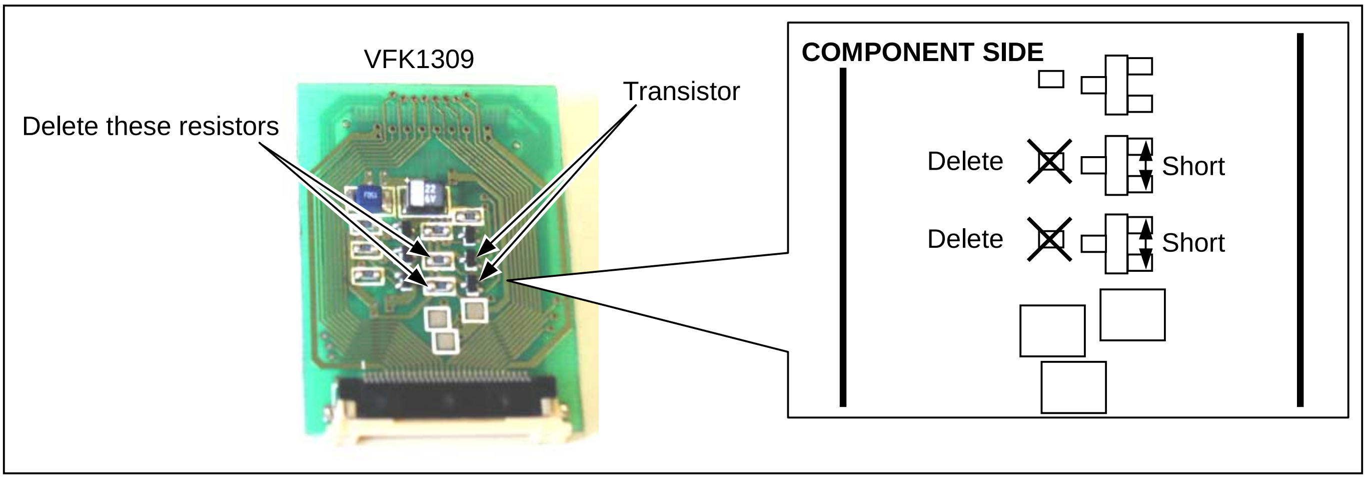
NAME	Part Number	Pcs.	Remark
Measuring Board	VFK1308P	1	
EVR Connector Board	VFK1309A	1	NOTE
Connector Adapter	VFK1763	1	60 to 30pin
30pin Flat Cable	VFK1317	2	
DC Cable	VJA0941	1	
DC Cable	VJA1128 or LSJ0310	1	
9pin RS232C cross cable	---	1	
AC Adapter	---	1	
Personal Computer	---	1	

NOTE:

1. VFK1309 can be used for this adjustment system except LCD adjustment.
2. If you have VFK1309, it can be modified to VFK1309A as following specification.

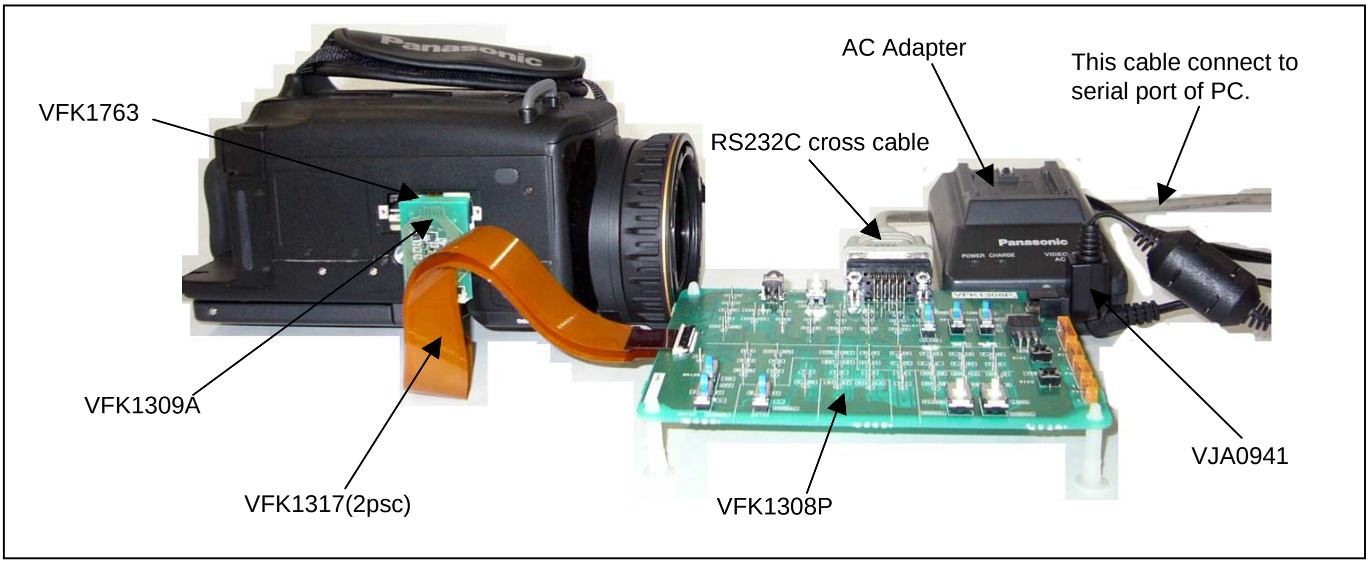
1-1. Modification procedure of VFK1309

1. Delete 2 pieces of resistor as shown in figure.
2. Short between emitter and base of 2 pieces of transistor as shown in figure.


VFK1309
Transistor
Delete these resistors
COMPONENT SIDE
Delete
Short
Delete
Short

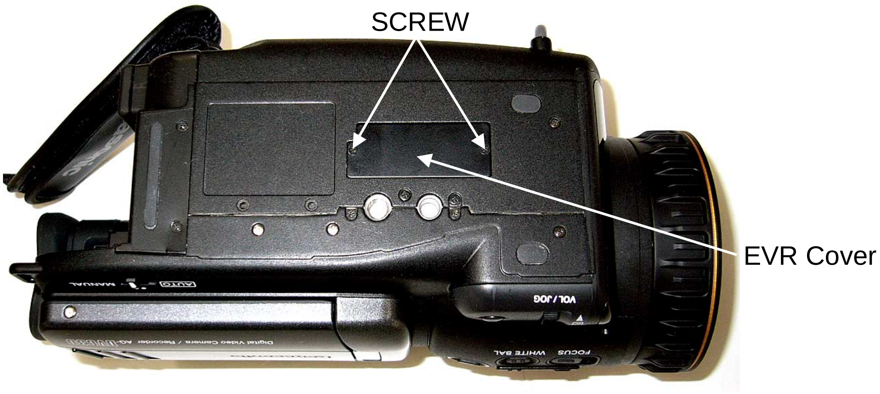
1-2. Connection

Please refer to next item 1-3 as detail explanation.


AC Adapter
This cable connect to serial port of PC.
VFK1763
RS232C cross cable
VFK1309A
VJA0941
VFK1317(2psc)
VFK1308P

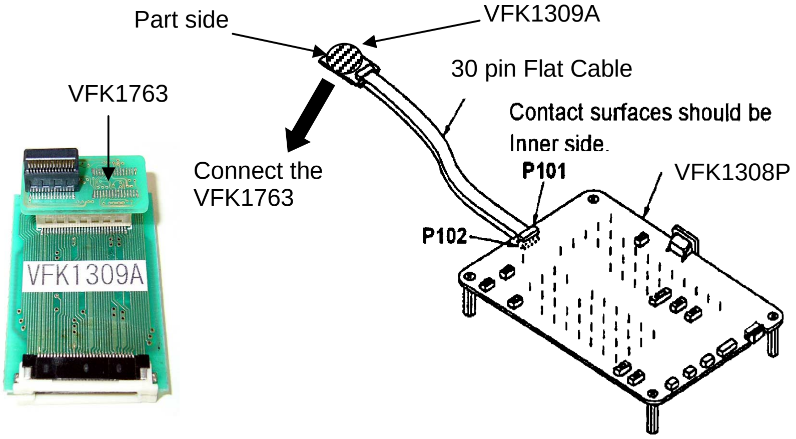
1-3. System Hook up Procedures

1. Unscrew the 2 screws and remove the EVR cover.

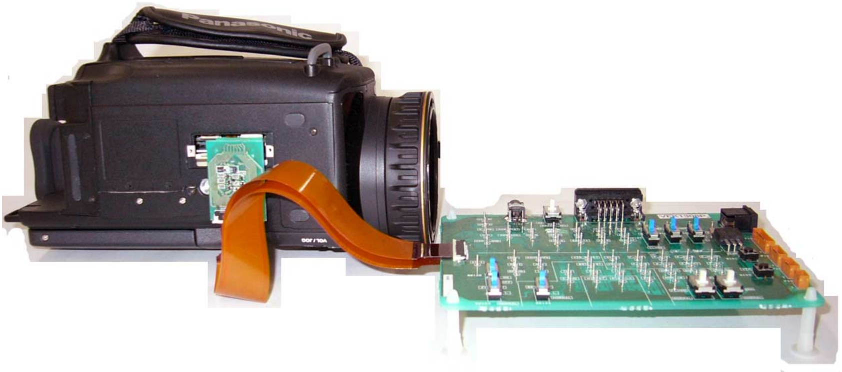

SCREW
EVR Cover

2. Connect the 2 pcs. of 30 pin flat cables (VFK1317) between P101/P102 on the Measuring Board (VFK1308P), and 2 connectors on the EVR Connector Board (VFK1309A). Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connector Board is as shown in Figures. Then connect the Connection Adapter (VFK1763).

Connect VFK1763 with VFK1309A as shown in picture.
If the connector is installed backwards, it will not work.


Part side
VFK1309A
30 pin Flat Cable
VFK1763
Contact surfaces should be Inner side.
Connect the VFK1763
P101
VFK1308P
P102
VFK1309A

3. Connect the Connection Adapter (VFK1763) to EVR connector in camera recorder. Then make sure that the direction of the VFK1309A and VFK1763 are correct as shown in Figure.



When connecting VFK1763 to the EVR connector, be careful that it is installed in the correct direction. Please follow as shown in the figure.

4. Supply DC6V-9V to the Measuring Board (VFK1308P). Please use the DC cable (VJA0941) and AC Adapter to supply DC voltage to Measuring Board.
5. Connect a 9 pin RS-232C cross cable between the Measuring Board and RS-232C connector on Personal Computer as shown in Figure.
6. Unless otherwise specified on the message of the EVR software or this adjustment procedure, set the switches on the Measuring Board as shown in the table below.

NAME	SETTING POSITION
RS232C SEL (SW101)	D-SUB
VTR TEST (SW103)	NORMAL
BST TEST (SW104)	NORMAL
SW107	CENTER position
SW108	H
SW105	H
SW106	OFF
FLUSH1 (SW102)	NORMAL
FLUSH2 (SW109)	NORMAL

2. REQUIRED TOOL & EQUIPMENT FOR ELECTRICAL ADJUSTMENT

Below indicated tools are required to perform each adjustment in addition to tools in introduced in item1.

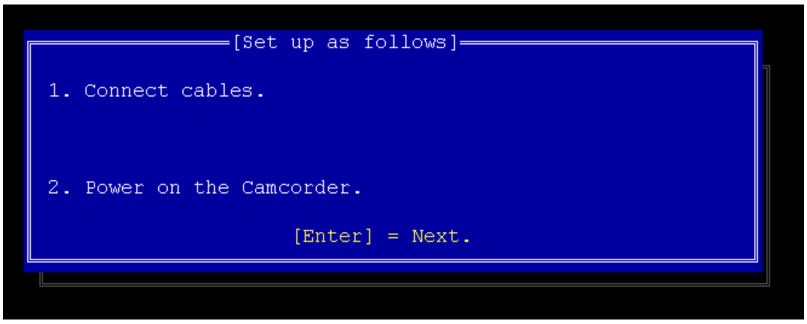
Adjustment	Item	Required Tool	Remark
Camera	Zoom SW center value adjustment	Unnecessary	**NOTE**
	Iris Hall Amp (Auto)	Unnecessary	
	Iris PWM Bias (Auto)	Unnecessary	
	ND Hall Amp (Auto)	Unnecessary	
	ND PWM Bias (Auto)	Unnecessary	
	OIS (Auto)	Unnecessary	
	Zoom Tracking (Auto)	43mm Attachment Ring (VFK1164TAR43)	
		Collimator Set (VFK1164TCM01)	
	CCD White scratch damage revision (Auto)	Unnecessary	
	White Balance (3100K)	Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (5100K)	CC filter (LB120) (VFK1347)	
		CC filter (LBA2) (VFK1884)	
		CC filter (LBB6) (VFK1888)	
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (4500K)	CC filter (LB120) (VFK1347)	NTSC model only
		CC filter (LB80) (VFK1342)	PAL model only
		CC filter (CC C20) (VFK1887)	PAL model only
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Balance (3600K)	CC filter (LB40) (VFK1341)	NTSC model only
		CC filter (LBB2) (VFK1885)	NTSC model only
		CC filter (CC C10) (VFK1886)	PAL model only
		CC Filter Holder (VFK1345)	
		Step-down Ring (62mm-52mm) (VFK1346)	
		Step-up Ring (43mm-49mm) (VFK1659)	
		Step-up Ring (49mm-62mm) (VFK1660)	
		Halogen lamp & Grayscale chart	
		Color Pyrometer & Lux Meter	
	White Shading	Halogen lamp	
VTR	Sensitivity adj of Tape sensor (Auto)	Tape End/Beg. Detect Cassette (VFK1217)	
	PG Shifter (Auto)	Oscilloscope	
		DV Color bar Alignment Tape (VFM3010EDS)	NTSC model only
		DV Color bar Alignment Tape (VFM3110EDS)	PAL model only
	Luminance Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
	Chroma Level	Waveform Monitor	NTSC model only
		Oscilloscope	PAL model only
LCD	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	
EVF	PLL	Oscilloscope	
	Pedestal Level	Oscilloscope	
	Contrast	Oscilloscope	
	Sub Contrast	Oscilloscope	
	White balance	Oscilloscope	

NOTE: The Zoom SW center value adjustment is contained in Camera adjustment menu but it is not on adjustment of the camera system.

3. PC EVR (ADJUSTMENT) SOFTWARE

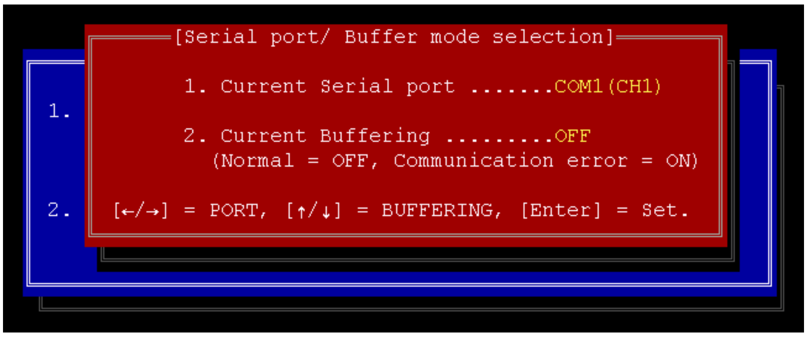
3-1. BOOT UP THE ADJUSTMENT SOFTWARE

1. Copy all files of EVR software (VFK1908:NTSC / VFK1909:PAL) to created directly on PC.
2. Restart the PC in DOS mode.
3. In case NTSC software, type **“dvc30p”** and press ENTER key, then EVR software boot up.
   In case PAL software, type **“dvc30e”** and press ENTER key, then EVR software boot up.
4. Wait for a few seconds so that the EVR adjustment program is started.



```
[Set up as follows]

1. Connect cables.


2. Power on the Camcorder.

                    [Enter] = Next.
```

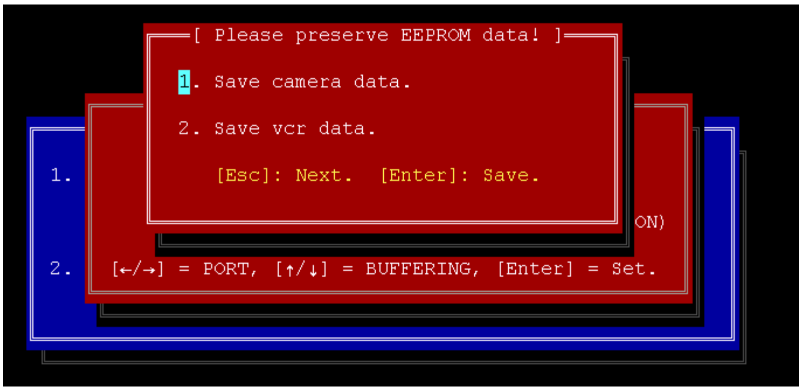
PRESS ENTER KEY



```
[Serial port/ Buffer mode selection]

1. Current Serial port .......COM1(CH1)

2. Current Buffering .........OFF
   (Normal = OFF, Communication error = ON)

[←/→] = PORT, [↑/↓] = BUFFERING, [Enter] = Set.
```

PRESS ENTER KEY

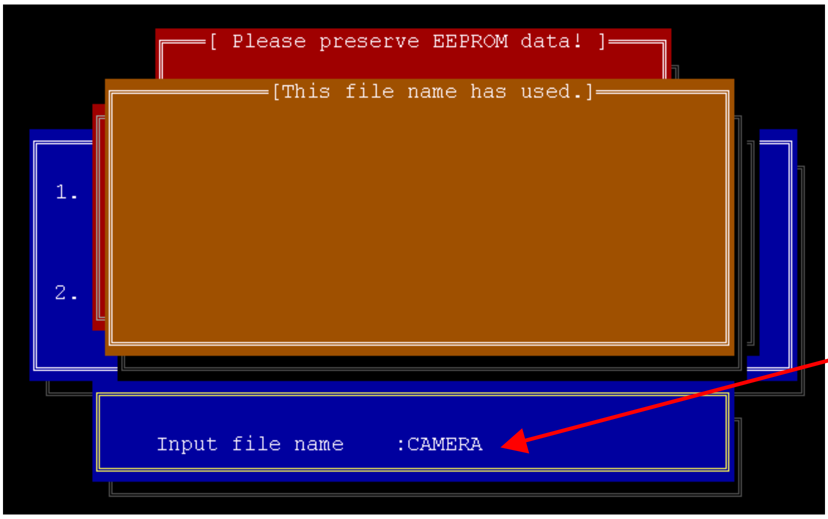
NOTE:
In case of communication error occurred in DOS mode, please try to boot an EVR software in MS-DOS WINDOWS screen.



```
[ Please preserve EEPROM data! ]

1. Save camera data.

2. Save vcr data.

   [Esc]: Next.  [Enter]: Save.
```

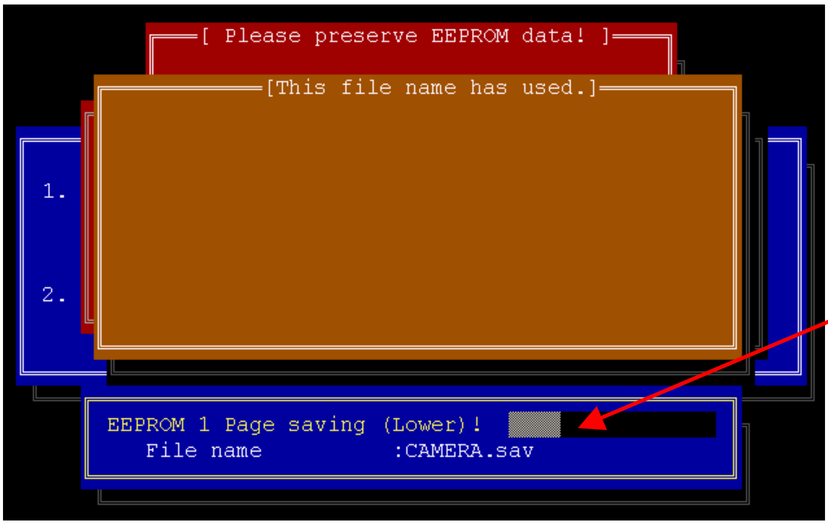
Normally this screen is appears. We recommended storing the EEPROM data before starting adjustment. If you want to skip storing the data, PRESS ESC KEY, then go storing to Main menu.
NOTE: It is only adjustment data that is actually saved.

In case of select No.1


[Please preserve EEPROM data!]
[This file name has used.]
1.
2.

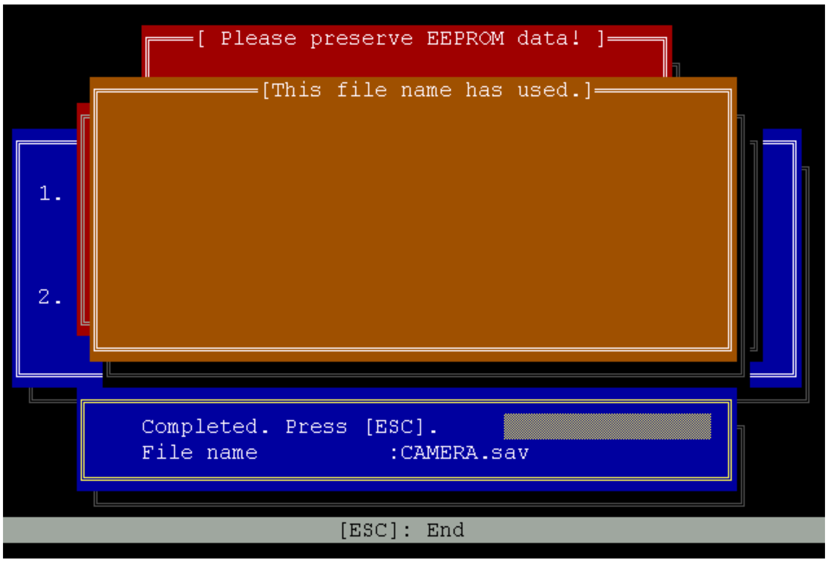
```
Input file name     :CAMERA
```

Input file name and PRESS ENTER KEY.


[Please preserve EEPROM data!]
[This file name has used.]
1.
2.

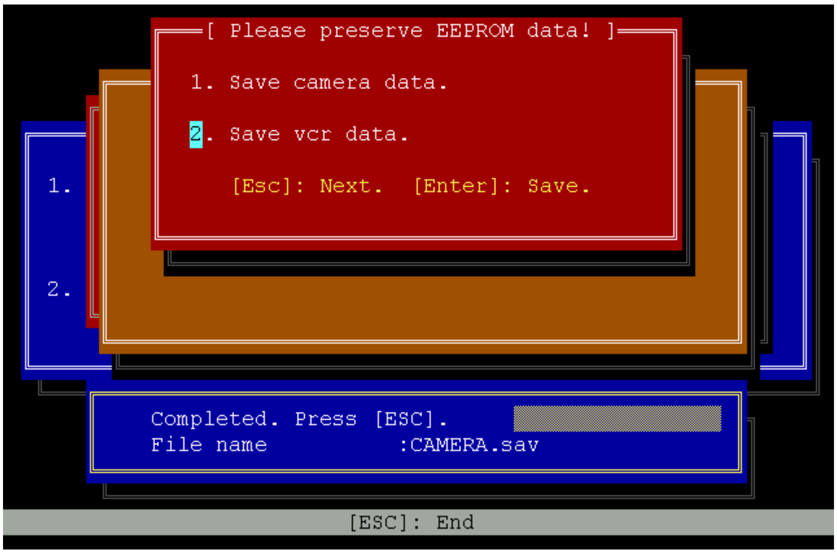
```
EEPROM 1 Page saving (Lower)!
   File name            :CAMERA.sav
```

Saving the data is started.


[Please preserve EEPROM data!]
[This file name has used.]
1.
2.
[ESC]: End

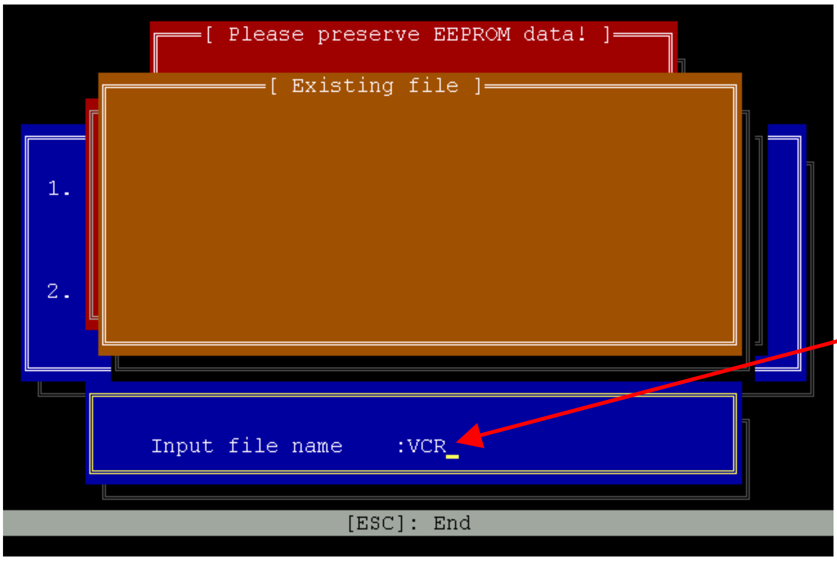
```
Completed. Press [ESC].
File name            :CAMERA.sav
```

When the data is stored completed, this screen is appears. PRESS ESC KEY.



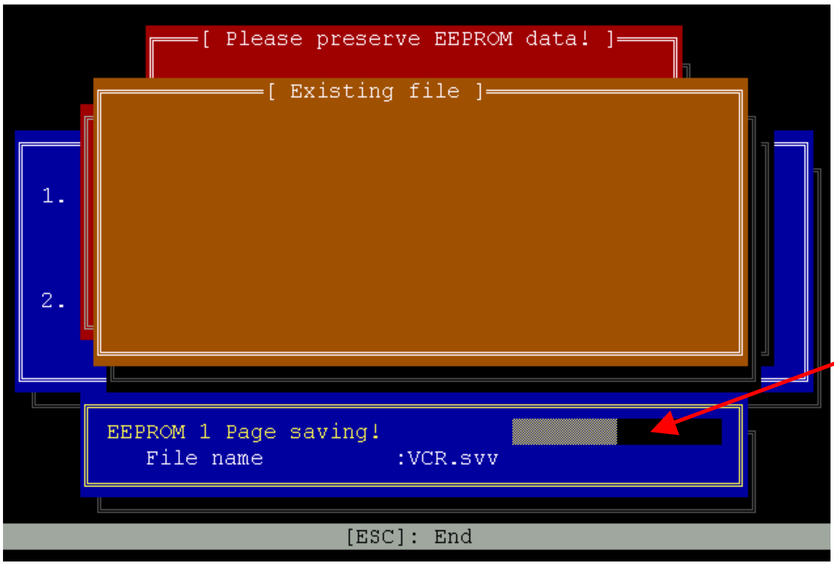
```
[ Please preserve EEPROM data! ]
1. Save camera data.
2. Save vcr data.
[Esc]: Next.  [Enter]: Save.

Completed. Press [ESC].
File name              :CAMERA.sav
[ESC]: End
```

Return to this screen and in case of select No.2, PRESS ENTER KEY.



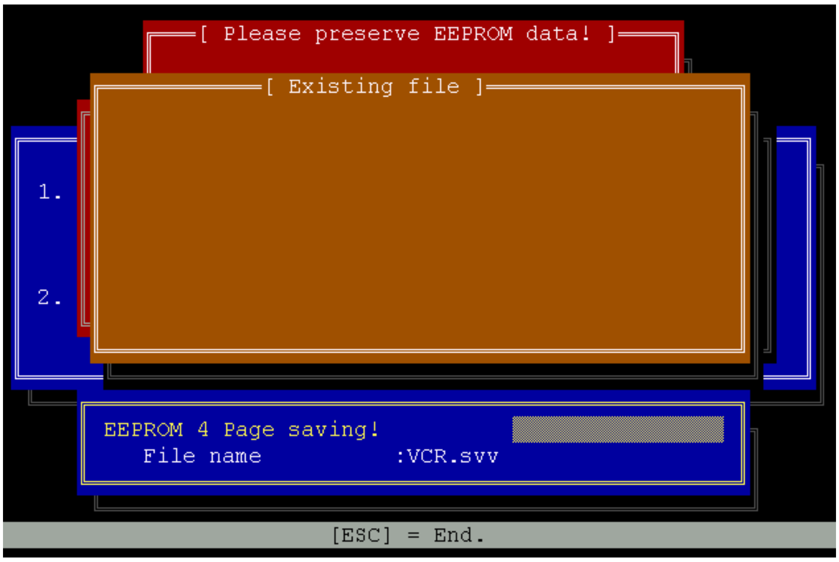
```
[ Please preserve EEPROM data! ]
[ Existing file ]

Input file name       :VCR_
[ESC]: End
```

Input file name and PRESS ENTER KEY.



```
[ Please preserve EEPROM data! ]
[ Existing file ]

EEPROM 1 Page saving!
   File name           :VCR.svv
[ESC]: End
```

Saving the data is started.



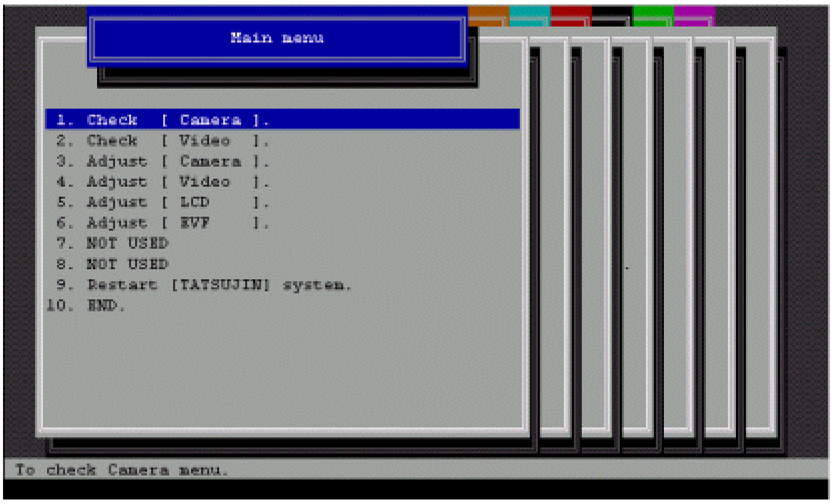
```
[ Please preserve EEPROM data! ]
[ Existing file ]
1.
2.
EEPROM 4 Page saving!
  File name          :VCR.svv
[ESC] = End.
```

When the data is stored completed, this screen appears. PRESS ESC KEY.

3-2. How to Use the Main Menu

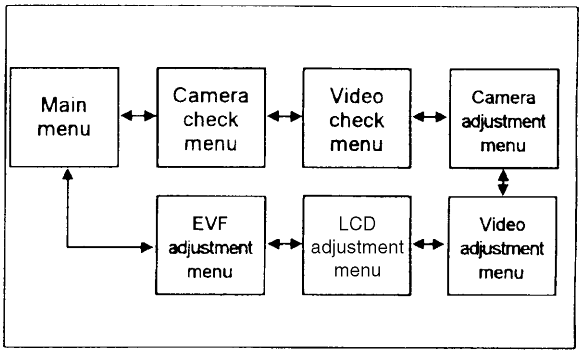
Select a Sub Menu to check, adjust the unit and etc. by pressing ↑↓ (UP/DOWN) Key in Main Menu. Then press **“ENTER”** Key. the Sub Menu will be displayed.

NOTE: Menu (pages) 3,4,5 and 6 are needed for adjustment.



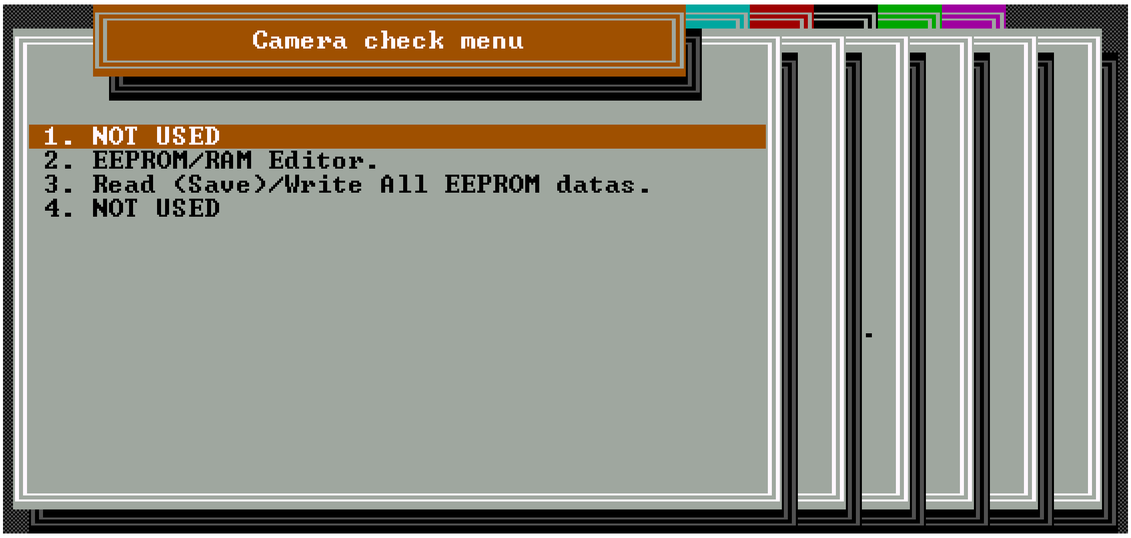
```
Main menu
 1. Check  [ Camera ].
 2. Check  [ Video  ].
 3. Adjust [ Camera ].
 4. Adjust [ Video  ].
 5. Adjust [ LCD    ].
 6. Adjust [ EVF    ].
 7. NOT USED
 8. NOT USED
 9. Restart [TATSUJIN] system.
10. END.
To check Camera menu.
```

With using ←→ keys, the menu can also be changed.


Main menu
Camera check menu
Video check menu
Camera adjustment menu
Video adjustment menu
LCD adjustment menu
EVF adjustment menu

3-3. Introduction of the Sub Menu

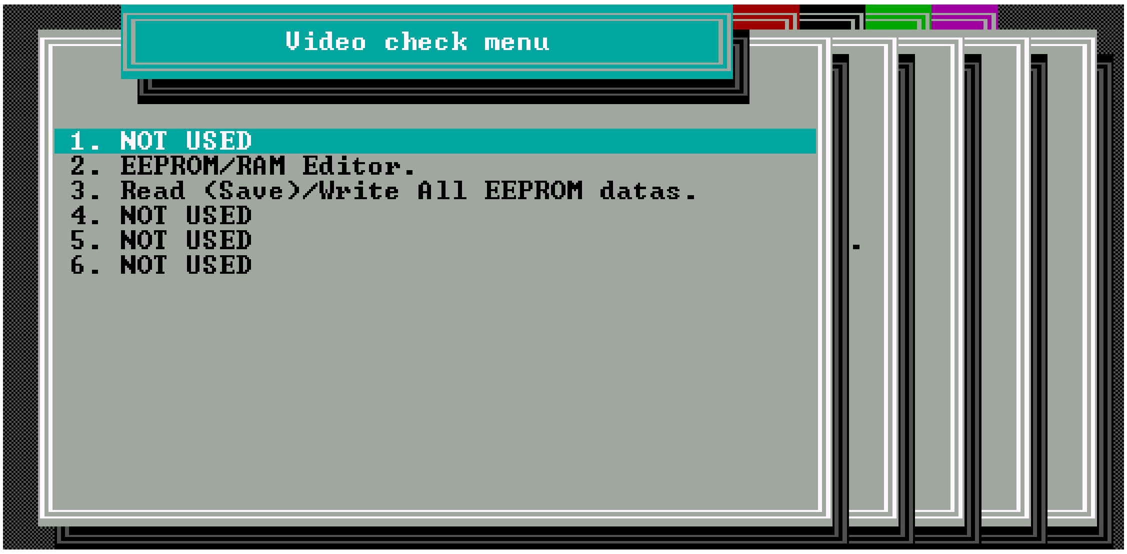
1) Camera Check Menu



Camera check menu

1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED

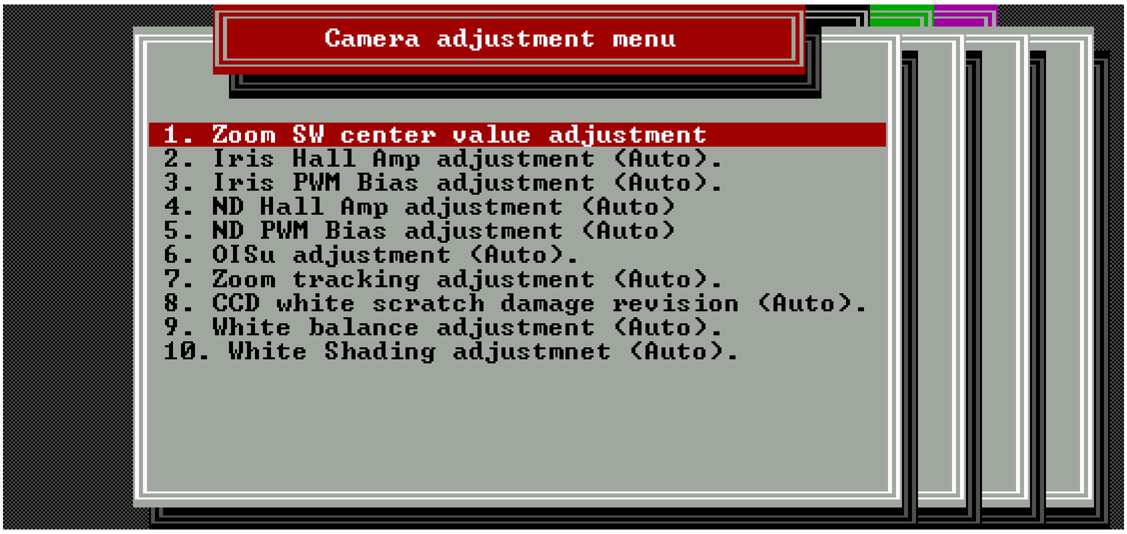
2) Video Check Menu



Video check menu

1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED
5. NOT USED
6. NOT USED

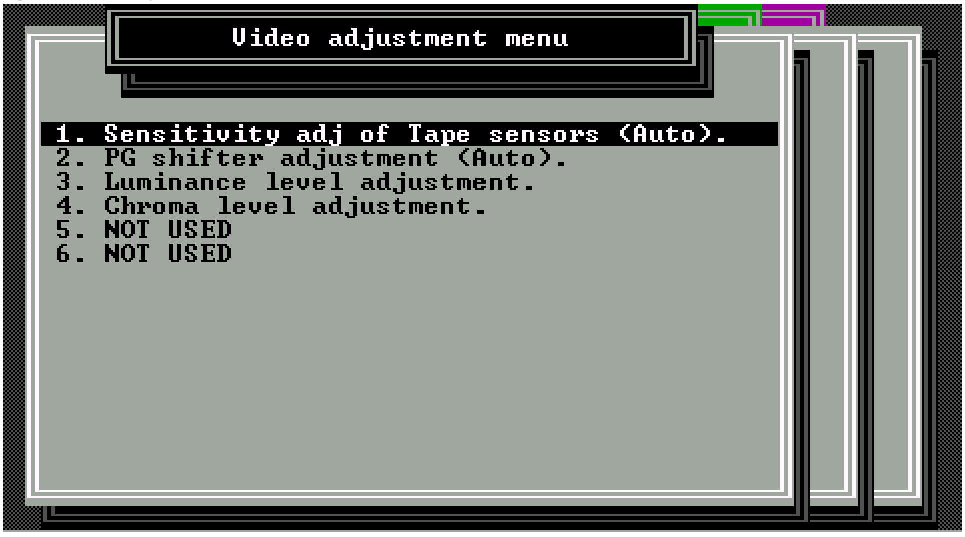
3) Camera Adjustment Menu



Camera adjustment menu

1. Zoom SW center value adjustment
2. Iris Hall Amp adjustment (Auto).
3. Iris PWM Bias adjustment (Auto).
4. ND Hall Amp adjustment (Auto)
5. ND PWM Bias adjustment (Auto)
6. OISu adjustment (Auto).
7. Zoom tracking adjustment (Auto).
8. CCD white scratch damage revision (Auto).
9. White balance adjustment (Auto).
10. White Shading adjustmnet (Auto).

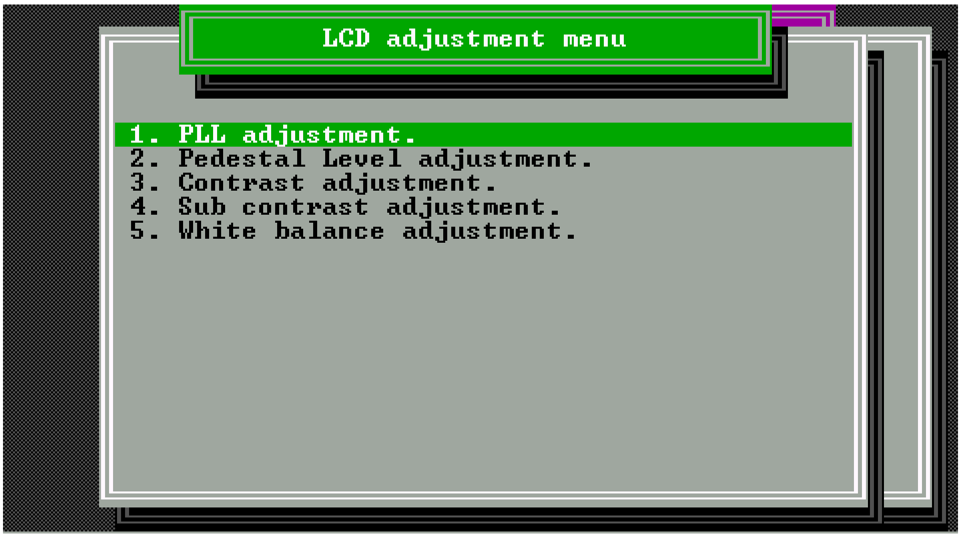
4) Video Adjustment Menu



Video adjustment menu

1. Sensitivity adj of Tape sensors (Auto).
2. PG shifter adjustment (Auto).
3. Luminance level adjustment.
4. Chroma level adjustment.
5. NOT USED
6. NOT USED

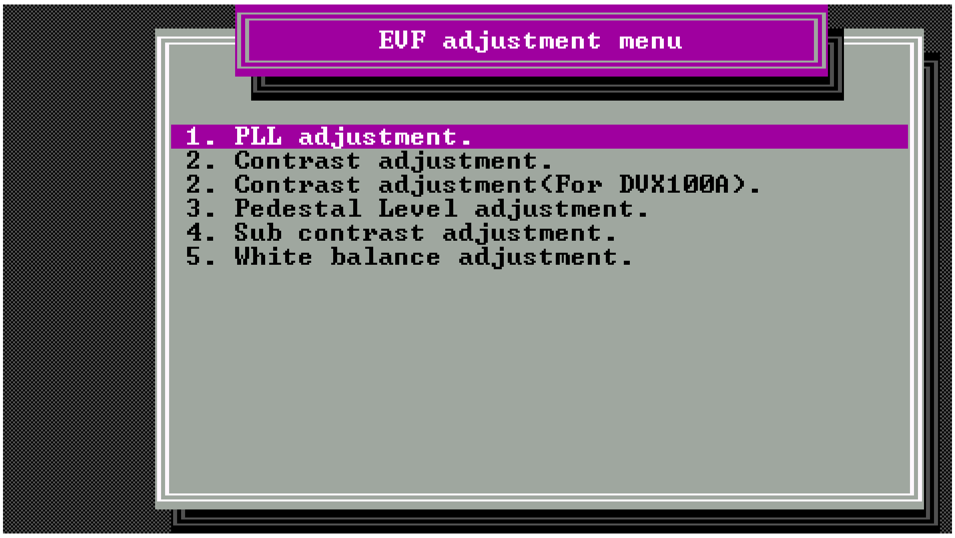
5) LCD Adjustment Menu



LCD adjustment menu

1. PLL adjustment.
2. Pedestal Level adjustment.
3. Contrast adjustment.
4. Sub contrast adjustment.
5. White balance adjustment.

6) EVF Adjustment Menu



EVF adjustment menu

1. PLL adjustment.
2. Contrast adjustment.
2. Contrast adjustment(For DVX100A).
3. Pedestal Level adjustment.
4. Sub contrast adjustment.
5. White balance adjustment.

4. EEPROM

All adjustment data has been stored in the EEPROM.
There are two EEPROM in this camera recorder as shown in the table below.

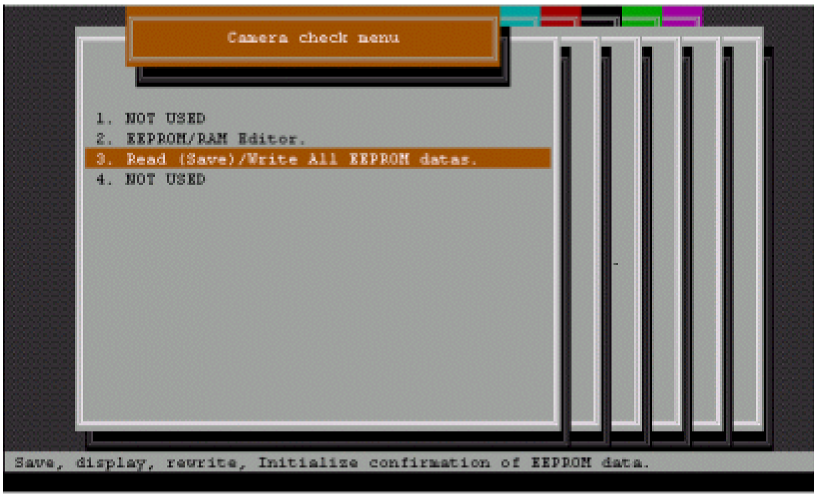
NAME	REF. No.
CAMERA EEPROM	IC3006 (CAMERA C.B.A.)
VTR EEPROM	IC2008 (VTR C.B.A.)

NOTE:
To save the EVR adjustment data to the EEPROM, follow items 4-1, 4-2, and 4-3. There is also additional data stored in this EEPROM (This EVR software can save or write only adjustment data).

NOTE:
Be sure to save both the EEPROM data into the personal computer before performing service and adjustment, in order to avoid any accidental data loss.

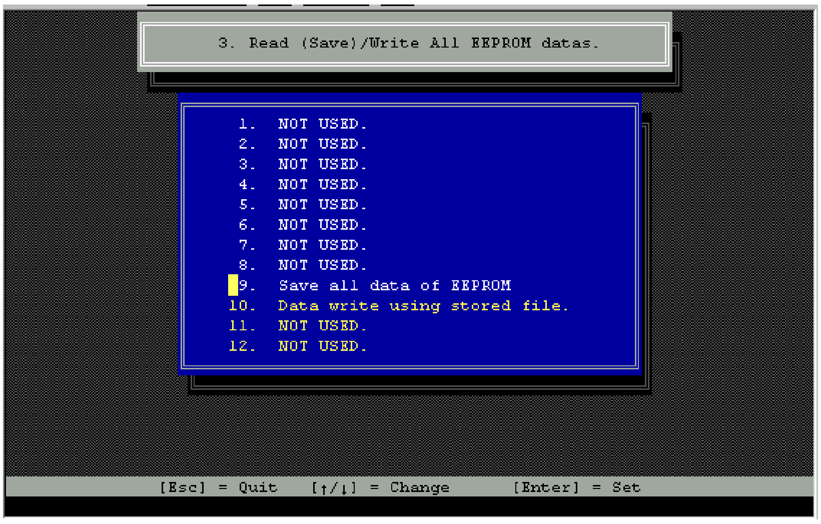
4-1. How to Save Camera Adjustment Data

1. Select **"Camera Check menu"** In the Main menu, and then press the **"Enter"** key.
2. Select **"3. Read (Save) / Write All EEPROM datas"** in the Camera check menu, and then press the **"Enter"** key.


Camera check menu
1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED

Save, display, rewrite, Initialize confirmation of EEPROM data.

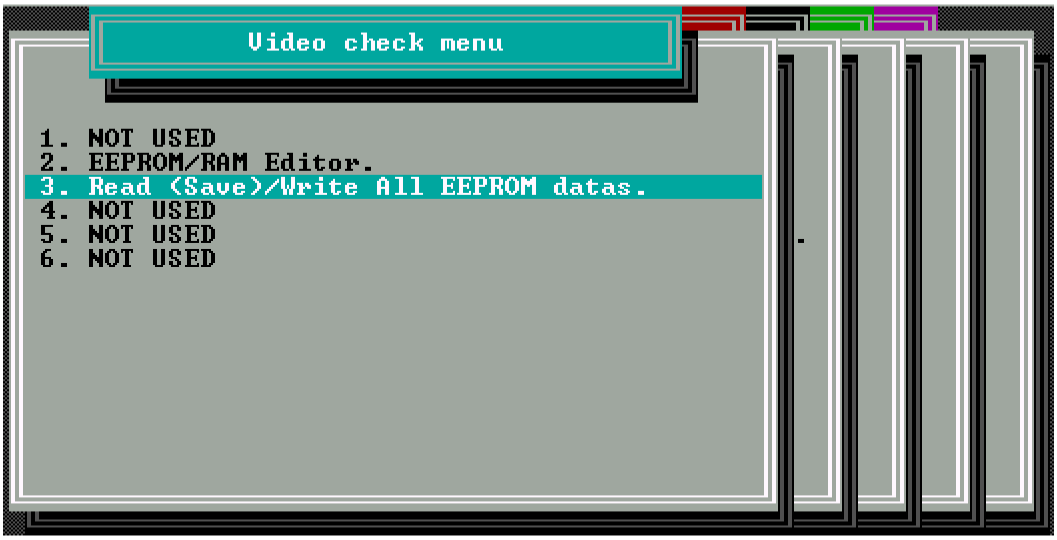
3. Select **"9. Save all data of EEPROM"** in **"3. Read (Save) / Write All EEPROM datas"** menu, and then press the **"Enter"** key.


3. Read (Save)/Write All EEPROM datas.
1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. NOT USED.
6. NOT USED.
7. NOT USED.
8. NOT USED.
9. Save all data of EEPROM
10. Data write using stored file.
11. NOT USED.
12. NOT USED.
[Esc] = Quit
[↑/↓] = Change
[Enter] = Set

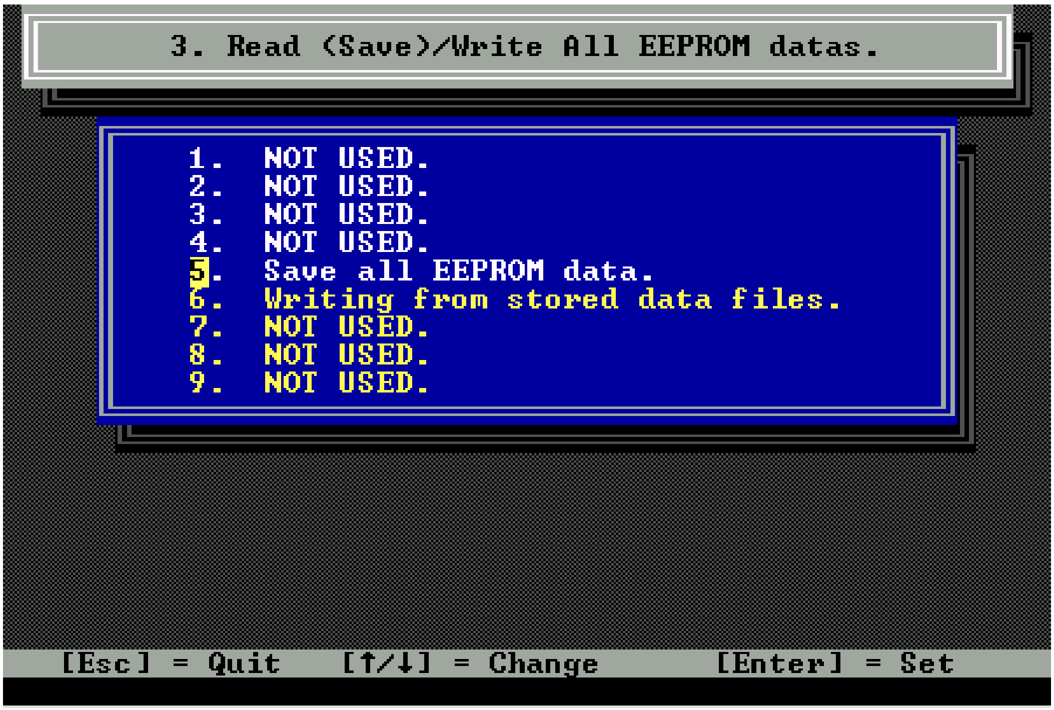
4. Type the File name and, then press the **“Enter”** key. The data of adjustment value can be stored in the personal computer. (Please refer to item **“3-1. BOOT UP THE ADJUSTMENT SOFTWARE”**)

4-2. How to Save VTR Adjustment Data

1. Select **“Video Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“3. Read (Save) / Write All EEPROM datas”** in the Video check menu, and then press the **“Enter”** key.


Video check menu
1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED
5. NOT USED
6. NOT USED

3. Select **“5. Save all EEPROM data”** in **“3. Read (Save) / Write All EEPROM datas”** menu, and then press the **“Enter”** key.


3. Read (Save)/Write All EEPROM datas.
1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. Save all EEPROM data.
6. Writing from stored data files.
7. NOT USED.
8. NOT USED.
9. NOT USED.
[Esc] = Quit
[↑/↓] = Change
[Enter] = Set

4. Type the File name, and then press the **“Enter”** key. The data of adjustment value will be stored in the personal computer.

4-3. REWRITE Adjustment Data

4-3-1. How to Rewrite Adjustment data on Camera C.B.A.

1. Select **“Camera Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“3. Read (Save) / Write All EEPROM datas”** in the Camera check menu, and then press the **“Enter”** key.
3. Select **“10. Data write using stored file”** in **“3. Read (Save) / Write All EEPROM datas”** menu, and then press the **“Enter”** key.
4. Type the saved file name, and then press the **“Enter”** key.
5. Select **“9. EEPROM ALL (2 Kbyte)”**, and then press the **“Enter”** key.
6. The adjustment data will be written in EEPROM (IC3006).

4-3-2. How to Rewrite Adjustment data on VTR C.B.A.

1. Select **“Video Check menu”** In the Main menu, and then press the **“Enter”** key.
2. Select **“3. Read (Save) / Write All EEPROM datas”** in the Video check menu, and then press the **“Enter”** key.
3. Select **“6. Writing from the stored data files”** in the **“3. Read (Save) / Write All EEPROM datas”** menu, and then press **“Enter”** key.
4. Type the saved file name, and then press the **“Enter”** key.
5. Select **“5. Write EEPROM (1024 byte)”**, and then press the **“Enter”** key.
6. The adjustment data can be written in EEPROM (IC2008).

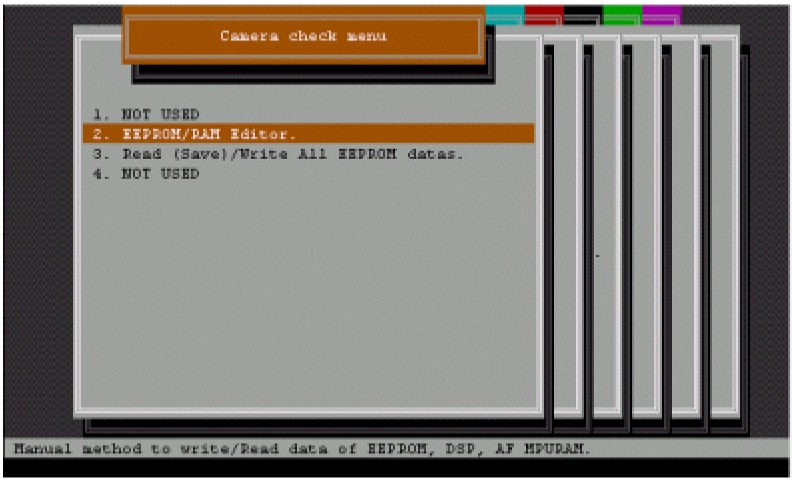
4-4. How to change the EEPROM Data.

EEPROM data can be changed individuality address unit. When changing EEPROM data with this EVR software, it uses item "2. EEPROM/RAM Editor" of each check menu.

NOTE: Before changing the Camera or VTR EEPROM data, be sure to save ALL EEPROM data into the personal computer to avoid any accidental data loss. Regarding the saving method, refer to item 4-1 and 4-2 in this section.

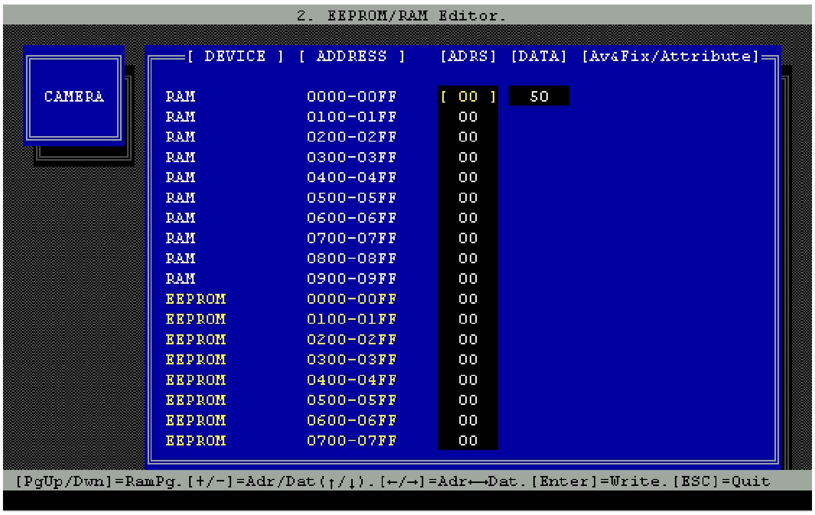
4-4-1. How to change the CAMERA EEPROM data.

1. Boot up EVR software and open the Camera check menu.
2. Select **“2. EEPROM/RAM Editor”** and press **“ENTER”** key.



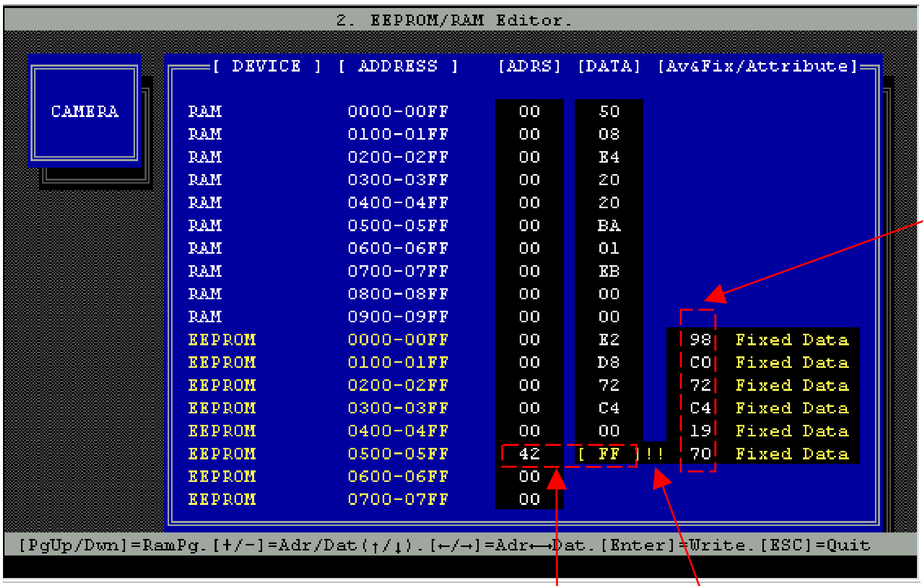
Manual method to write/Read data of EEPROM, DSP, AF MPURAM.

3. Below indicated screen is displayed.



```
2. EEPROM/RAM Editor.

CAMERA    [ DEVICE ]  [ ADDRESS ]    [ADRS]  [DATA]  [Av&Fix/Attribute]

          RAM         0000-00FF      [ 00 ]    50
          RAM         0100-01FF        00
          RAM         0200-02FF        00
          RAM         0300-03FF        00
          RAM         0400-04FF        00
          RAM         0500-05FF        00
          RAM         0600-06FF        00
          RAM         0700-07FF        00
          RAM         0800-08FF        00
          RAM         0900-09FF        00
          EEPROM      0000-00FF        00
          EEPROM      0100-01FF        00
          EEPROM      0200-02FF        00
          EEPROM      0300-03FF        00
          EEPROM      0400-04FF        00
          EEPROM      0500-05FF        00
          EEPROM      0600-06FF        00
          EEPROM      0700-07FF        00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

4. In case of data is change to FF from 70 on address 0542, select a line **"EEPROM 0500-05FF"** by arrow key (↑/↓) and input a value as 42 to column [ADRS]. Next cursor is moved to column [DATA] by arrow key (→/←) and input a value as FF. And press ENTER key to write to EEPROM.



```
2. EEPROM/RAM Editor.

CAMERA    [ DEVICE ]  [ ADDRESS ]    [ADRS]  [DATA]  [Av&Fix/Attribute]

          RAM         0000-00FF        00      50
          RAM         0100-01FF        00      08
          RAM         0200-02FF        00      E4
          RAM         0300-03FF        00      20
          RAM         0400-04FF        00      20
          RAM         0500-05FF        00      BA
          RAM         0600-06FF        00      01
          RAM         0700-07FF        00      EB
          RAM         0800-08FF        00      00
          RAM         0900-09FF        00      00
          EEPROM      0000-00FF        00      E2        98   Fixed Data
          EEPROM      0100-01FF        00      D8        C0   Fixed Data
          EEPROM      0200-02FF        00      72        72   Fixed Data
          EEPROM      0300-03FF        00      C4        C4   Fixed Data
          EEPROM      0400-04FF        00      00        19   Fixed Data
          EEPROM      0500-05FF        42    [ FF ]!!    70   Fixed Data
          EEPROM      0600-06FF        00
          EEPROM      0700-07FF        00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr←→Dat.[Enter]=Write.[ESC]=Quit
```

NOTE: This data is not original data. Do not use this data.

After writing data, mark **"!!"** is displayed momentary.

Input data as [ADRS] is 42 and [DATA] is FF and press ENTER key

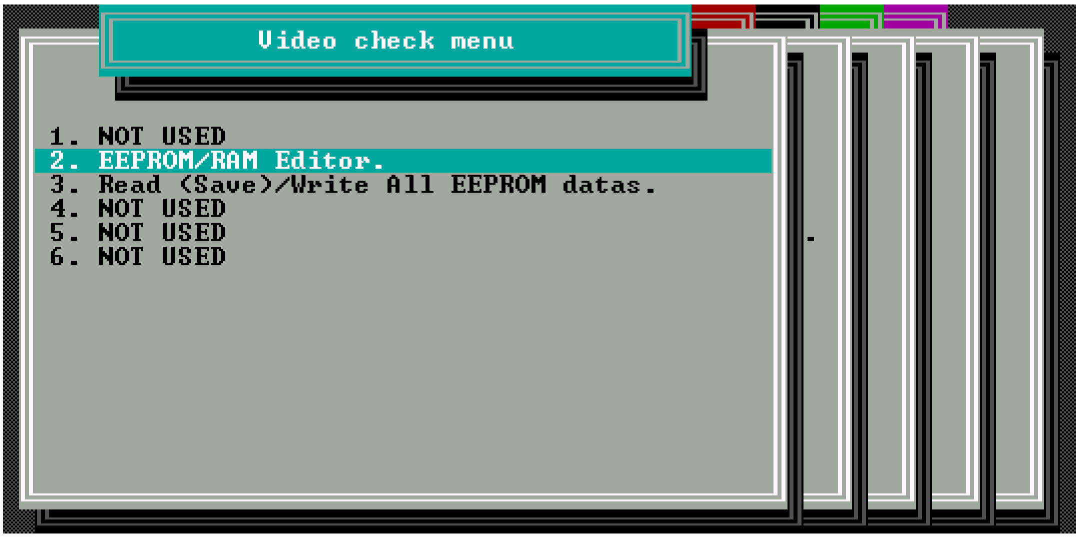
5. Please change the other part of address data follow the above description.

NOTE: The address is indicated as 4 digits of numerical value. Select the line based on first 2 digit and value behind 2 digit is input value to column [ADRS].

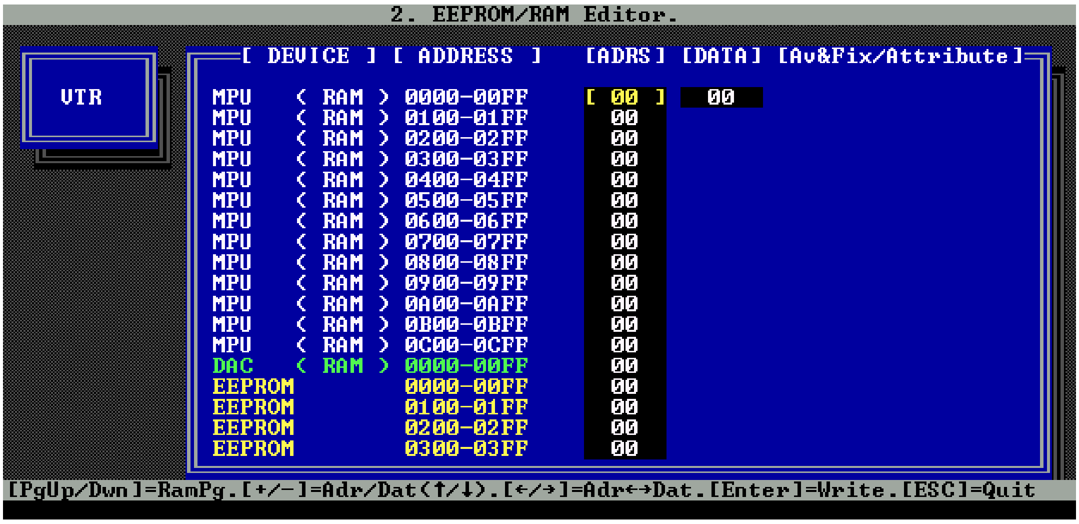
EEPROM 0000-00FF ◀—— In case of 00ED, select the line of **"0000-00FF"**.
EEPROM 0100-01FF
EEPROM 0200-02FF
EEPROM 0300-03FF
EEPROM 0400-04FF
EEPROM 0500-05FF ◀—— In case of 0542, select the line of **"0500-05FF"**
EEPROM 0600-06FF
EEPROM 0700-07FF

4-4-2. How to change the VTR EEPROM data.

1. Boot up EVR software and open the Video check menu.
2. Select **"2. EEPROM/RAM Editor"** and press **"ENTER"** key.


Video check menu
1. NOT USED
2. EEPROM/RAM Editor.
3. Read (Save)/Write All EEPROM datas.
4. NOT USED
5. NOT USED
6. NOT USED

3. Below indicated screen is displayed.



```
                      2. EEPROM/RAM Editor.
 VTR    =[ DEVICE ] [ ADDRESS ]  [ADRS] [DATA] [Av&Fix/Attribute]=
          MPU    ( RAM ) 0000-00FF   [ 00 ]    00
          MPU    ( RAM ) 0100-01FF     00
          MPU    ( RAM ) 0200-02FF     00
          MPU    ( RAM ) 0300-03FF     00
          MPU    ( RAM ) 0400-04FF     00
          MPU    ( RAM ) 0500-05FF     00
          MPU    ( RAM ) 0600-06FF     00
          MPU    ( RAM ) 0700-07FF     00
          MPU    ( RAM ) 0800-08FF     00
          MPU    ( RAM ) 0900-09FF     00
          MPU    ( RAM ) 0A00-0AFF     00
          MPU    ( RAM ) 0B00-0BFF     00
          MPU    ( RAM ) 0C00-0CFF     00
          DAC    ( RAM ) 0000-00FF     00
          EEPROM         0000-00FF     00
          EEPROM         0100-01FF     00
          EEPROM         0200-02FF     00
          EEPROM         0300-03FF     00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr↔Dat.[Enter]=Write.[ESC]=Quit
```

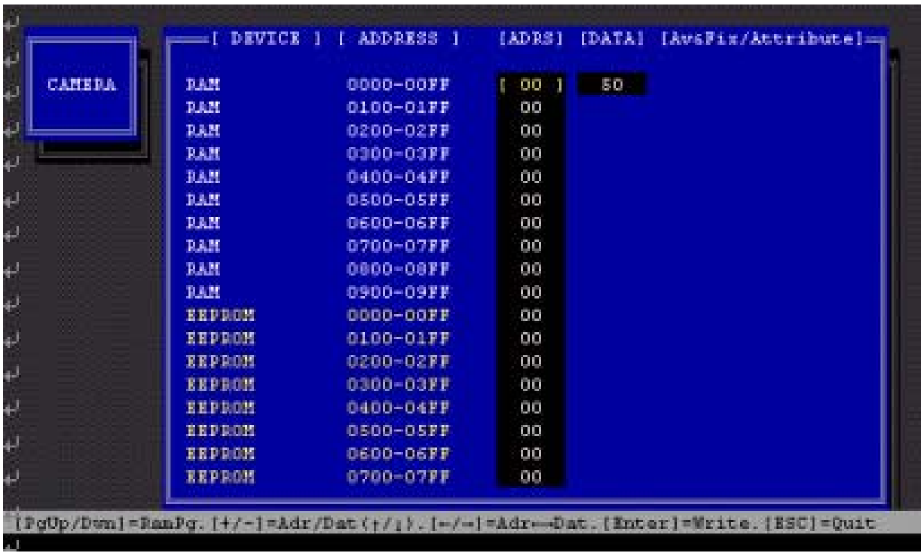
4. How changing the EEPROM data is the same as CAMERA EEPROM refer to previous item 4-4-1.

5. ZOOM SW Center Value Adjustment

Be sure to save the CAMERA adjustment data into the Personal Computer, before performing adjustment.

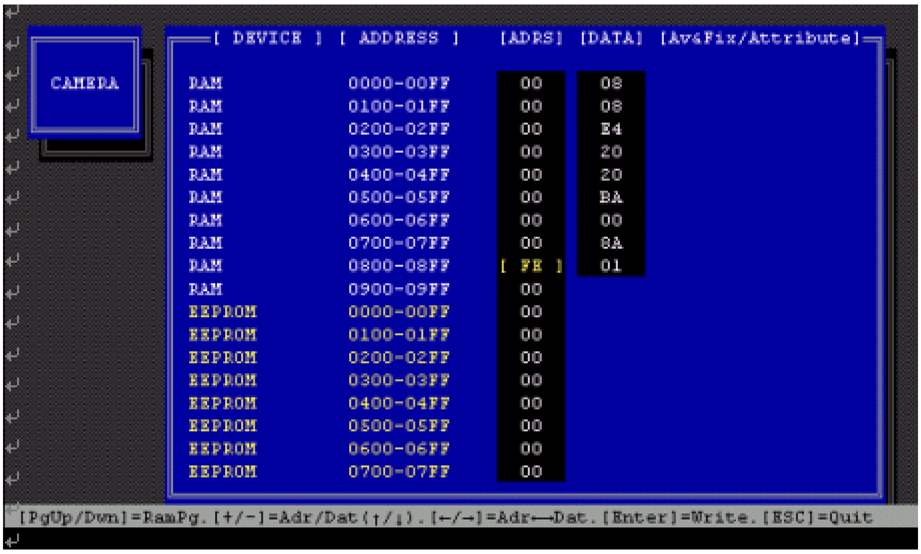
This adjustment has to be performed, when the CASSETTE COVER UNIT or ZOOM SW in CASSETTE COVER UNIT is replaced.

1. Open the **“Camera adjustment menu”**.
2. Select **“1. Zoom SW center value adjustment”** in the camera adjustment menu, and then press **“ENTER”** key.
3. Set to CAMERA mode in camera recorder following the message **“Auto / Manually set to CAMERA mode.”**, and then press **“ENTER”** key.
4. Below indicated screen is displayed.



```
CAMERA    [ DEVICE ] [ ADDRESS ]   [ADRS] [DATA] [Av&Fix/Attribute]

          RAM        0000-00FF     [ 00 ]   50
          RAM        0100-01FF       00
          RAM        0200-02FF       00
          RAM        0300-03FF       00
          RAM        0400-04FF       00
          RAM        0500-05FF       00
          RAM        0600-06FF       00
          RAM        0700-07FF       00
          RAM        0800-08FF       00
          RAM        0900-09FF       00
          EEPROM     0000-00FF       00
          EEPROM     0100-01FF       00
          EEPROM     0200-02FF       00
          EEPROM     0300-03FF       00
          EEPROM     0400-04FF       00
          EEPROM     0500-05FF       00
          EEPROM     0600-06FF       00
          EEPROM     0700-07FF       00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr⟷Dat.[Enter]=Write.[ESC]=Quit
```

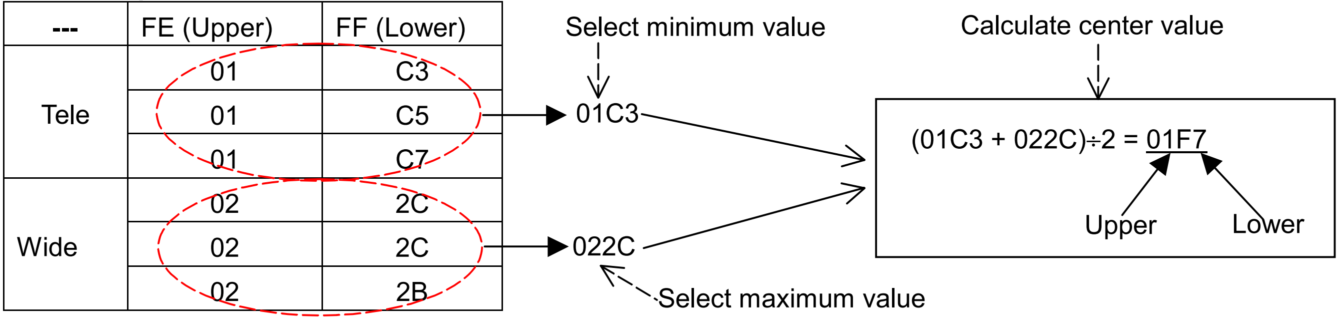
5. Select a line **“RAM 0800 - 08FF”** by arrow key (↑/↓) and input a value as FE to column [ADRS].
6. Press Tele side of zoom switch on Grip Cover side to fully Tele position and release a finger slowly from button.
7. Write down displayed numerical value in column [DATA].



```
CAMERA    [ DEVICE ] [ ADDRESS ]   [ADRS] [DATA] [Av&Fix/Attribute]

          RAM        0000-00FF       00     08
          RAM        0100-01FF       00     08
          RAM        0200-02FF       00     E4
          RAM        0300-03FF       00     20
          RAM        0400-04FF       00     20
          RAM        0500-05FF       00     BA
          RAM        0600-06FF       00     00
          RAM        0700-07FF       00     8A
          RAM        0800-08FF     [ FE ]   01
          RAM        0900-09FF       00
          EEPROM     0000-00FF       00
          EEPROM     0100-01FF       00
          EEPROM     0200-02FF       00
          EEPROM     0300-03FF       00
          EEPROM     0400-04FF       00
          EEPROM     0500-05FF       00
          EEPROM     0600-06FF       00
          EEPROM     0700-07FF       00
[PgUp/Dwn]=RamPg.[+/-]=Adr/Dat(↑/↓).[←/→]=Adr⟷Dat.[Enter]=Write.[ESC]=Quit
```

8. Input a value FF to column [ADRS] on line **“RAM 0800 - 08FF”** .
9. Write down displayed numerical value in column [DATA].
10. Repeat step 5 to 9 twice to write down the value.
11. Select the minimum measurement value.
12. Press Wide side of zoom switch on Cassette Cover side to fully wide position and release a finger slowly from button and repeat step 5 to 9 three times.
13. Select the maximum measurement value.

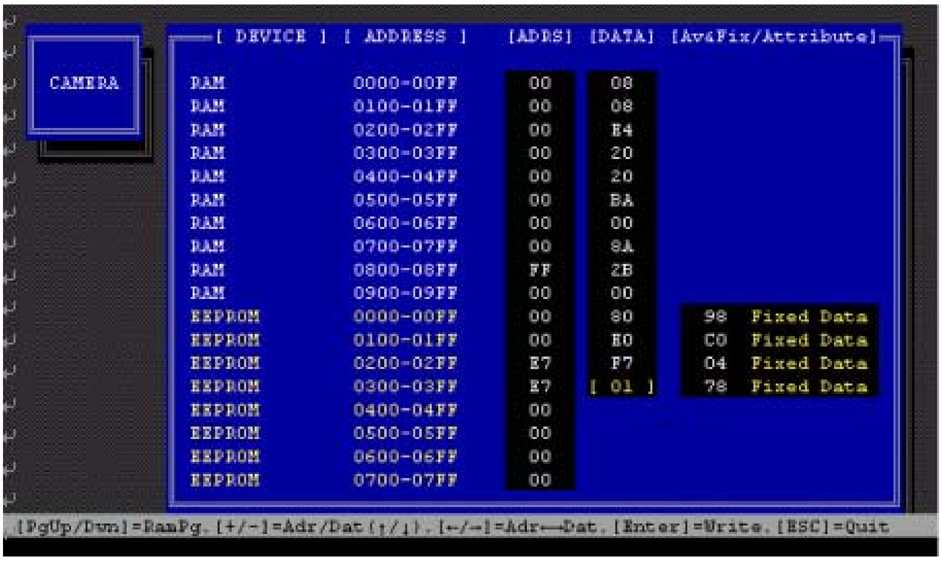
<For example>



---	FE (Upper)	FF (Lower)
Tele	01	C3
	01	C5
	01	C7
Wide	02	2C
	02	2C
	02	2B

(01C3 + 022C)÷2 = 01F7

14. Calculate center value of minimum and maximum value.
15. Select a line **"EEPROM 0200 - 02FF"** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
16. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as lower data value (for example: F7 as indicated as above). And press ENTER key to write to EEPROM.
17. Select a line **"EEPROM 0300 - 03FF"** by arrow key (↑/↓) and input a value as E7 to column [ADRS].
18. Cursor is moved to column [DATA] by arrow key (→/←) and input a value as upper data value (for example: 01 as indicated as above). And press ENTER key to write to EEPROM.



```
[ DEVICE ] [ ADDRESS ]   [ADRS] [DATA] [Av&Fix/Attribute]

RAM        0000-00FF      00     08
RAM        0100-01FF      00     08
RAM        0200-02FF      00     E4
RAM        0300-03FF      00     20
RAM        0400-04FF      00     20
RAM        0500-05FF      00     BA
RAM        0600-06FF      00     00
RAM        0700-07FF      00     8A
RAM        0800-08FF      FF     2B
RAM        0900-09FF      00     00
EEPROM     0000-00FF      00     80       98  Fixed Data
EEPROM     0100-01FF      00     E0       C0  Fixed Data
EEPROM     0200-02FF      E7     F7       04  Fixed Data
EEPROM     0300-03FF      E7   [ 01 ]     78  Fixed Data
EEPROM     0400-04FF      00
EEPROM     0500-05FF      00
EEPROM     0600-06FF      00
EEPROM     0700-07FF      00
[PgUp/Dwn]=RamPg. [+/-]=Adr/Dat(↑/↓). [←/→]=Adr←→Dat. [Enter]=Write. [ESC]=Quit
```

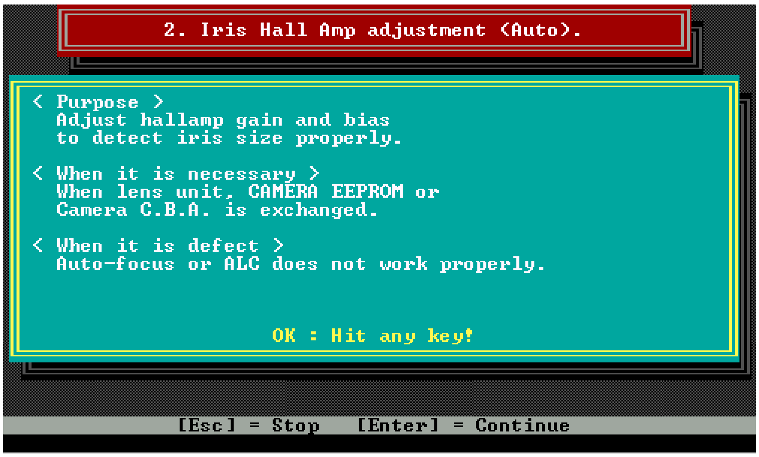
6. CAMERA ADJUSTMENT PROCEDURE

Be sure to save the Camera adjustment data into the Personal Computer, before performing adjustment.
Perform all PC-EVR adjustments, by referring to procedures on PC screen.

6-1. Iris Hall Amp Adjustment (AUTO)

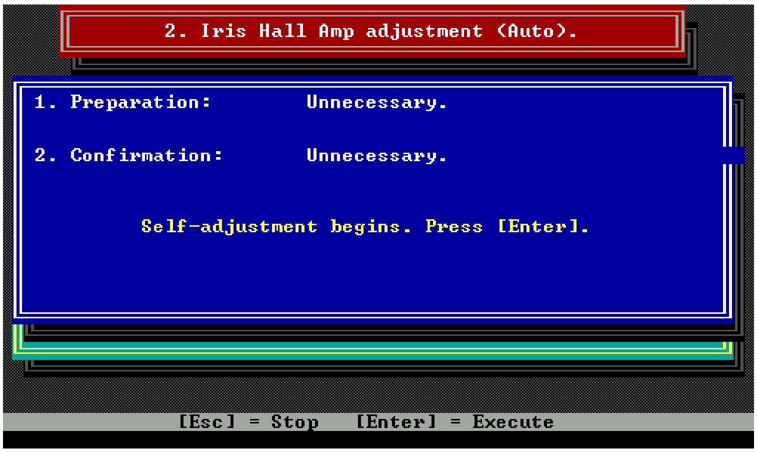
This adjustment is automatically executed.

1. Open the **“Camera adjustment menu”**. Please
2. Select **“2. Iris Hall Amp adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



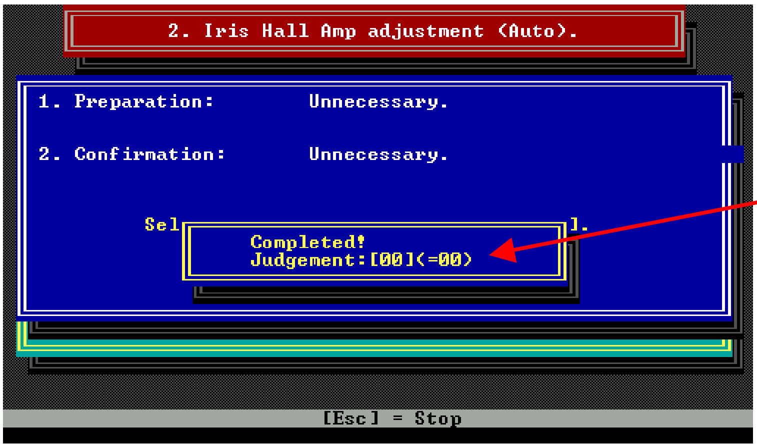
```
2. Iris Hall Amp adjustment (Auto).

< Purpose >
  Adjust hallamp gain and bias
  to detect iris size properly.

< When it is necessary >
  When lens unit, CAMERA EEPROM or
  Camera C.B.A. is exchanged.

< When it is defect >
  Auto-focus or ALC does not work properly.

              OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
2. Iris Hall Amp adjustment (Auto).

1. Preparation:        Unnecessary.

2. Confirmation:       Unnecessary.

     Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



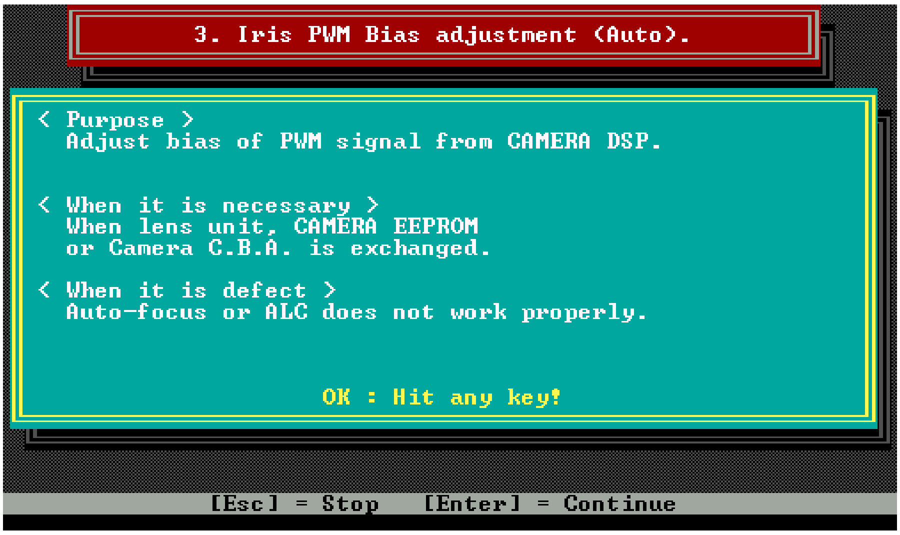
```
2. Iris Hall Amp adjustment (Auto).

1. Preparation:        Unnecessary.

2. Confirmation:       Unnecessary.

     Sel                          ].
          Completed!
          Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-2. Iris PWM Bias Adjustment (AUTO)

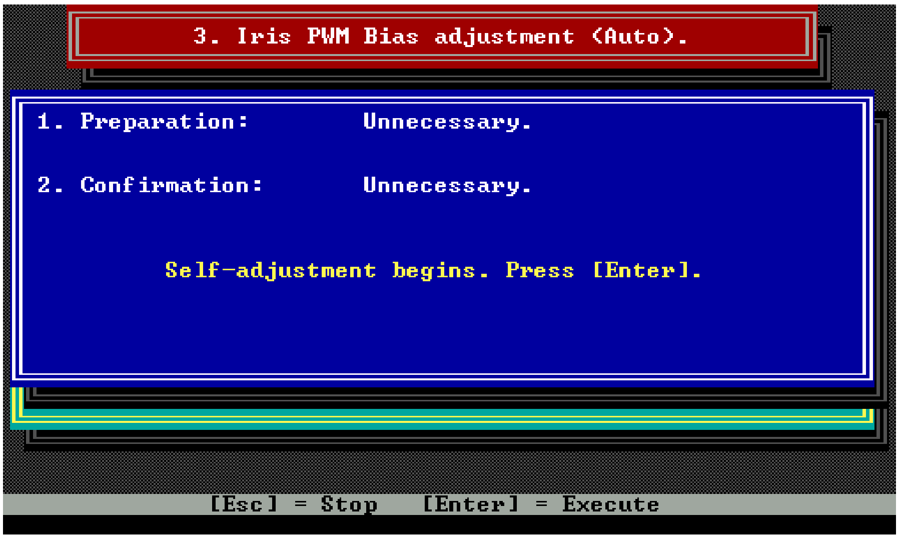
This adjustment is automatically executed.

1. Open the **"Camera adjustment menu"**.
2. Select **"3. Iris PWM Bias adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



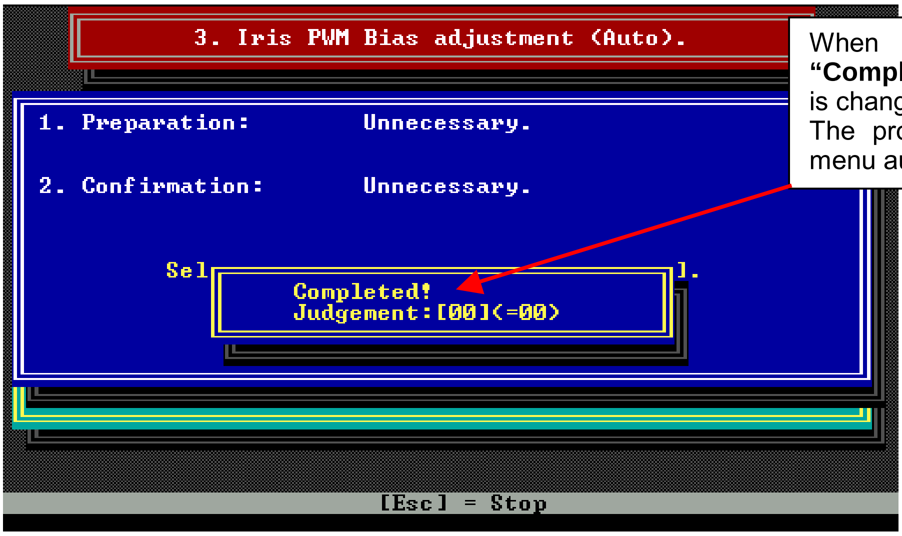
```
3. Iris PWM Bias adjustment (Auto).

< Purpose >
  Adjust bias of PWM signal from CAMERA DSP.

< When it is necessary >
  When lens unit, CAMERA EEPROM
  or Camera C.B.A. is exchanged.

< When it is defect >
  Auto-focus or ALC does not work properly.

                OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
3. Iris PWM Bias adjustment (Auto).

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

         Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY,
then adjustment is started.



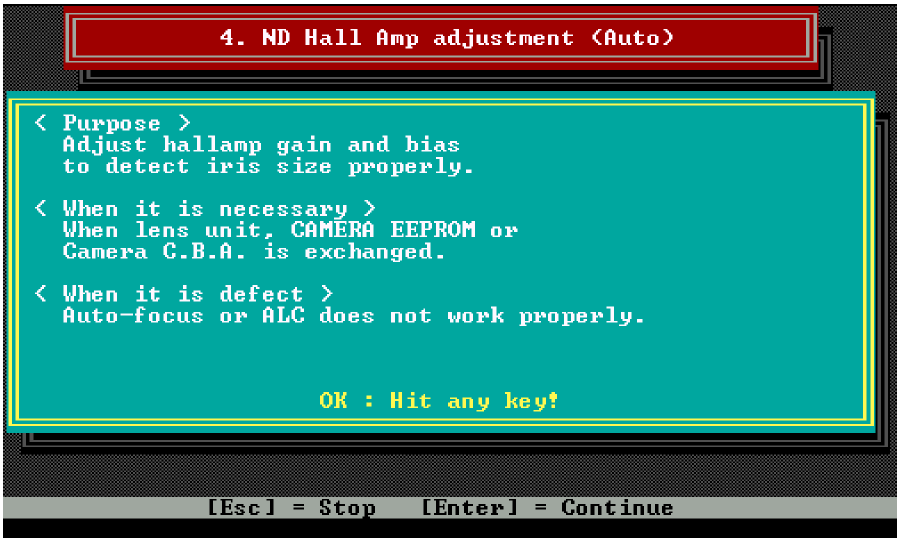
```
3. Iris PWM Bias adjustment (Auto).

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

         Sel                            ].
              Completed!
              Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

6-3. ND Hall Amp Adjustment (AUTO)

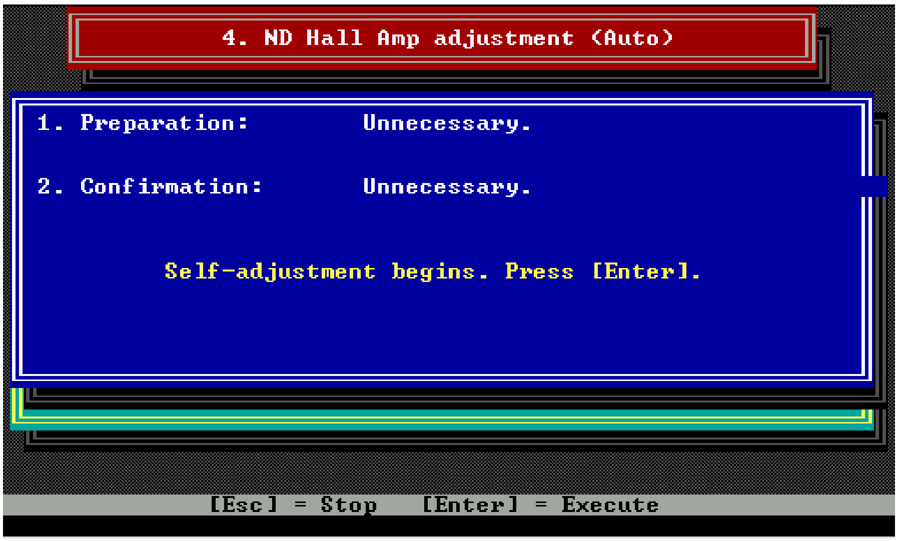
This adjustment is automatically executed.

1. Open the **"Camera adjustment menu"**.
2. Select **"4. ND Hall Amp adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
3. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



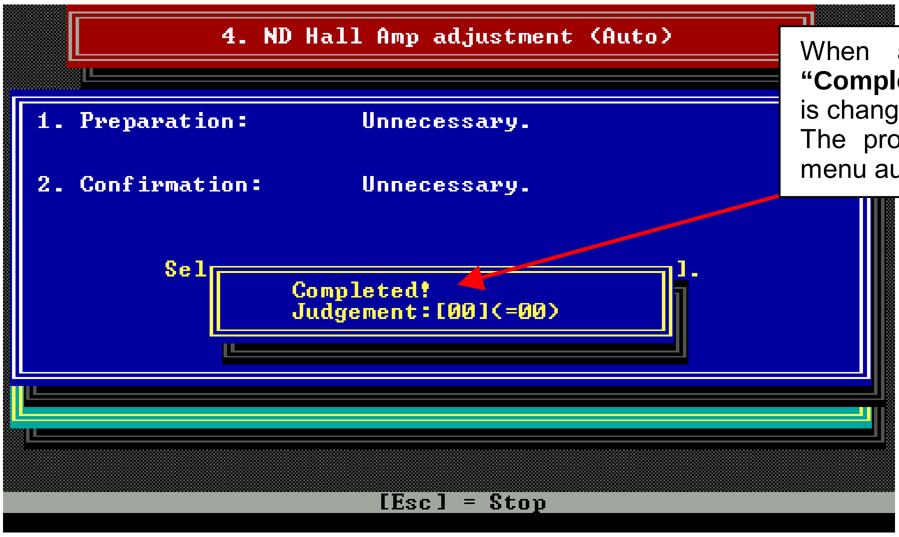
```
4. ND Hall Amp adjustment (Auto)

< Purpose >
  Adjust hallamp gain and bias
  to detect iris size properly.

< When it is necessary >
  When lens unit, CAMERA EEPROM or
  Camera C.B.A. is exchanged.

< When it is defect >
  Auto-focus or ALC does not work properly.

                    OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
4. ND Hall Amp adjustment (Auto)

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

        Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY,
then adjustment is started.



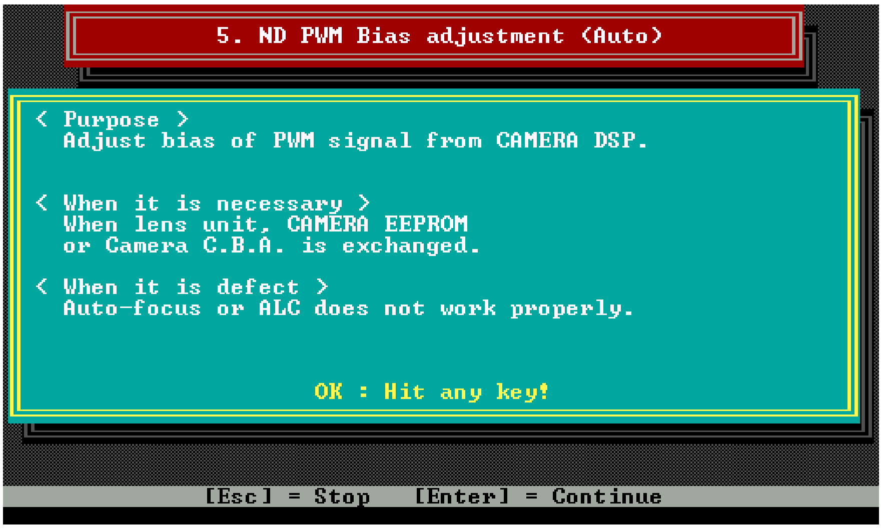
```
4. ND Hall Amp adjustment (Auto)

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

        Sel                             ].
              Completed!
              Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.
The program goes to Camera adjustment menu automatically.

6-4. ND PWM Bias Adjustment (AUTO)

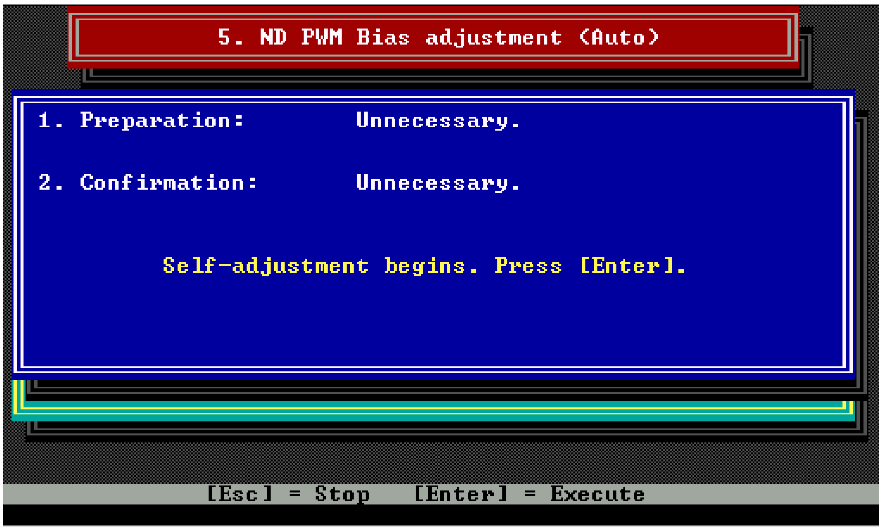
This adjustment is automatically executed.

1. Open the **“Camera adjustment menu”**.
2. Select **“5. ND PWM Bias adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



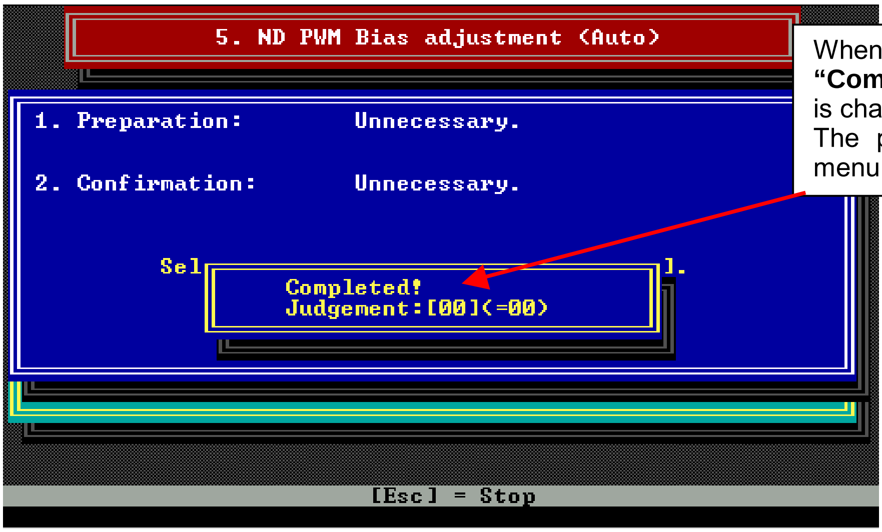
```
5. ND PWM Bias adjustment (Auto)

< Purpose >
  Adjust bias of PWM signal from CAMERA DSP.

< When it is necessary >
  When lens unit, CAMERA EEPROM
  or Camera C.B.A. is exchanged.

< When it is defect >
  Auto-focus or ALC does not work properly.

                OK : Hit any key!

     [Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
5. ND PWM Bias adjustment (Auto)

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

        Self-adjustment begins. Press [Enter].

     [Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY,
then adjustment is started.



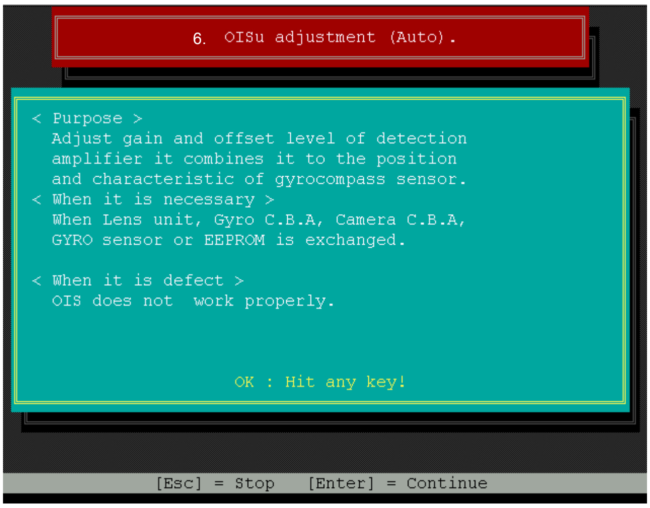
```
5. ND PWM Bias adjustment (Auto)

1. Preparation:          Unnecessary.

2. Confirmation:         Unnecessary.

        Sel                              ].
            Completed!
            Judgement:[00](=00)

              [Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-5. OISu Adjustment (AUTO)

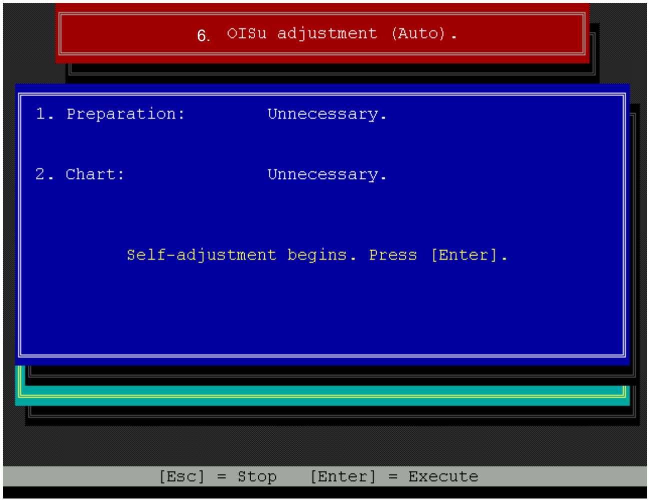
This adjustment is automatically executed.

1. Open the **“Camera adjustment menu”**.
2. Select **“6. OISu adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
6.  OISu adjustment (Auto).

< Purpose >
  Adjust gain and offset level of detection
  amplifier it combines it to the position
  and characteristic of gyrocompass sensor.
< When it is necessary >
  When Lens unit, Gyro C.B.A, Camera C.B.A,
  GYRO sensor or EEPROM is exchanged.

< When it is defect >
  OIS does not  work properly.

OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

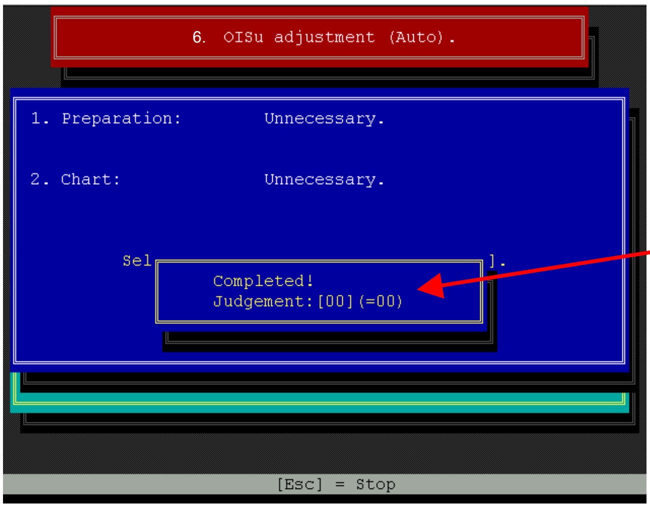
PRESS ENTER KEY.



```
6.  OISu adjustment (Auto).

1. Preparation:         Unnecessary.

2. Chart:               Unnecessary.

Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.

NOTE: You will hear a tapping sound, this is OK.



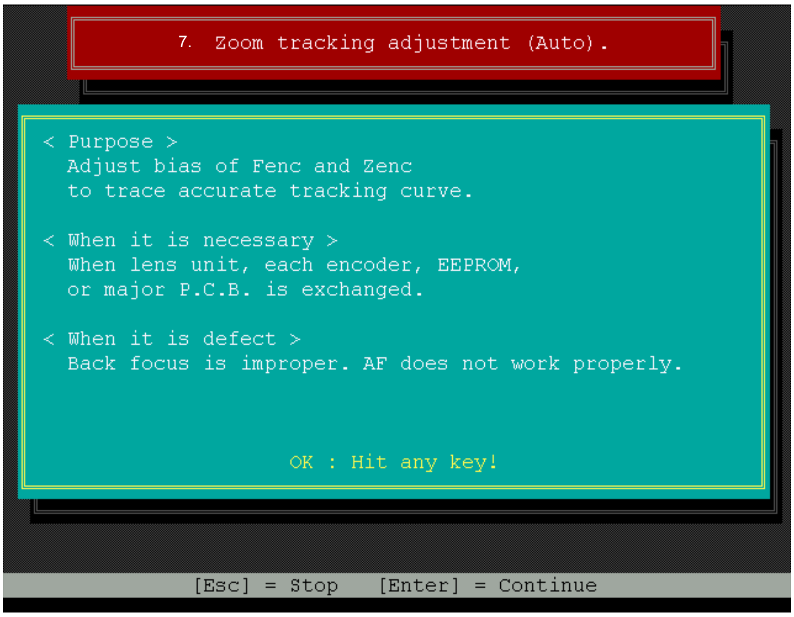
```
6.  OISu adjustment (Auto).

1. Preparation:         Unnecessary.

2. Chart:               Unnecessary.

Sel                                  ].
      Completed!
      Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-6. Zoom Tracking Adjustment (AUTO)

This adjustment is automatically executed.

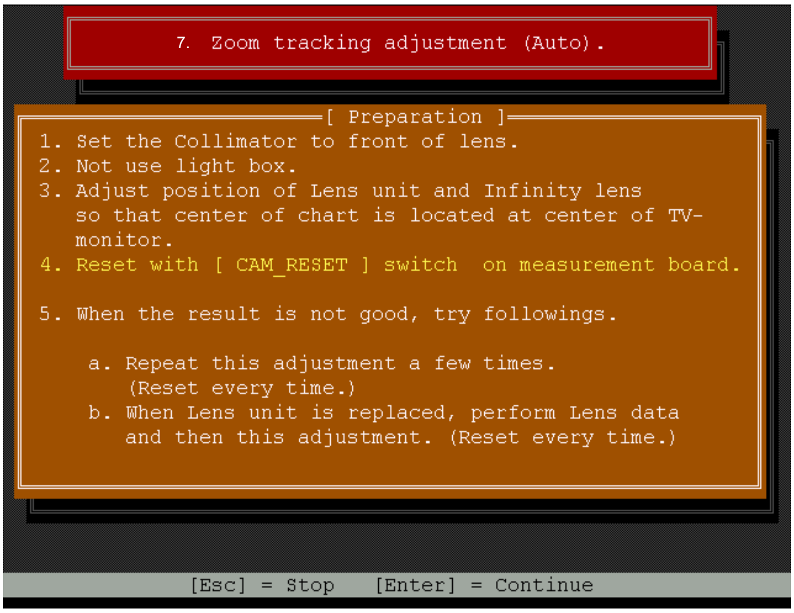
1. Set the 43mm attachment ring (VFK1164TAR43) to front of the Lens.
2. Set the Collimator (VFK1164TCM01) to 43mm attachment ring (VFK1164TAR43) to
3. Open the **"Camera adjustment menu"**.
4. Select **"7. Zoom Tracking adjustment (Auto)"** in the Camera adjustment menu, and then press the **"Enter"** key.
5. Set to CAMERA mode in camera recorder follow the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



```
7.  Zoom tracking adjustment (Auto).

< Purpose >
  Adjust bias of Fenc and Zenc
  to trace accurate tracking curve.

< When it is necessary >
  When lens unit, each encoder, EEPROM,
  or major P.C.B. is exchanged.

< When it is defect >
  Back focus is improper. AF does not work properly.


                     OK : Hit any key!

          [Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.

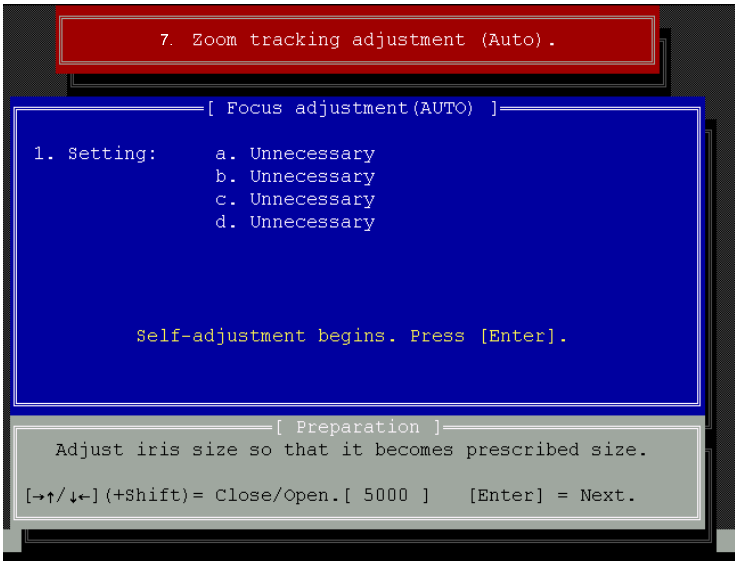
⇩



```
7.  Zoom tracking adjustment (Auto).

[ Preparation ]
1. Set the Collimator to front of lens.
2. Not use light box.
3. Adjust position of Lens unit and Infinity lens
   so that center of chart is located at center of TV-
   monitor.
4. Reset with [ CAM_RESET ] switch  on measurement board.

5. When the result is not good, try followings.

    a. Repeat this adjustment a few times.
       (Reset every time.)
    b. When Lens unit is replaced, perform Lens data
       and then this adjustment. (Reset every time.)

          [Esc] = Stop    [Enter] = Continue
```

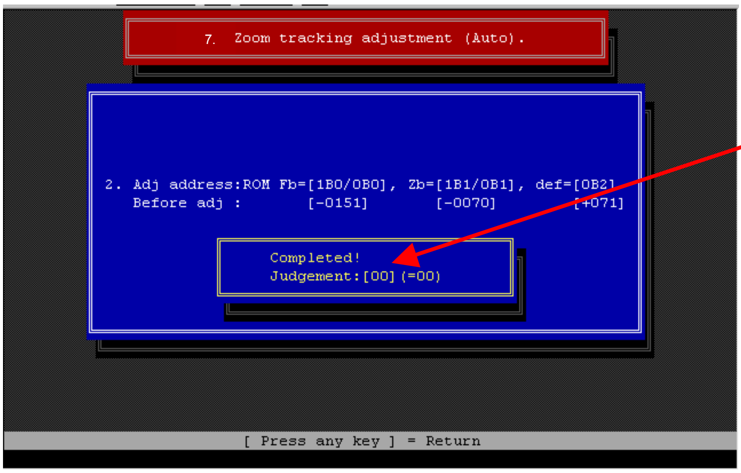
PRESS ENTER KEY.

⇩



```
7. Zoom tracking adjustment (Auto).

[ Focus adjustment(AUTO) ]
1. Setting:      a. Unnecessary
                 b. Unnecessary
                 c. Unnecessary
                 d. Unnecessary

        Self-adjustment begins. Press [Enter].

[ Preparation ]
  Adjust iris size so that it becomes prescribed size.

[→↑/↓←](+Shift)= Close/Open.[ 5000 ]   [Enter] = Next.
```

PRESS ENTER KEY, then adjustment is started.



```
7. Zoom tracking adjustment (Auto).

2. Adj address:ROM Fb=[1B0/0B0], Zb=[1B1/0B1], def=[0B2]
   Before adj :       [-0151]       [-0070]       [+071]

            Completed!
            Judgement:[00](=00)

[ Press any key ] = Return
```

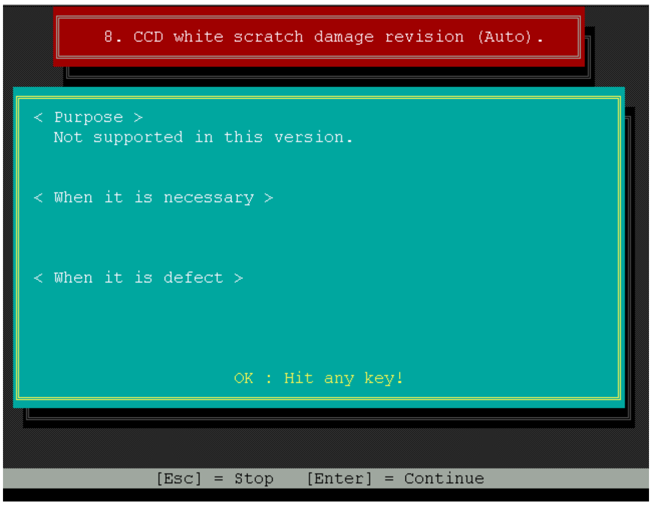
When adjustment is finished, message **"Completed!"** appears and numerical value is changed **"00"**.

6. Connect the VIDEO OUT to Monitor TV.
7. Set the AUTO/MANUAL SELECT switch to MANUAL position.
8. Adjust Focus Ring to set focus of the focus chart in the MF mode, at the maximum of TELE side.
9. Press the Zoom button to change zoom position to maximum WIDE from maximum TELE side and to maximum TELE side from maximum WIDE side, then confirm that the focus chart appears clear.

6-7. CCD white scratch damage revision Adjustment (AUTO)

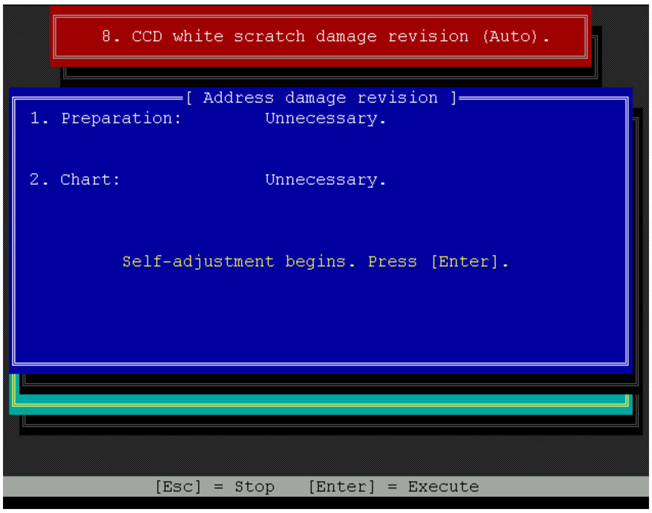
This adjustment is automatically executed.

1. Open the **“Camera adjustment menu”**.
2. Select **“8.CCD white scratch damage revision adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
3. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



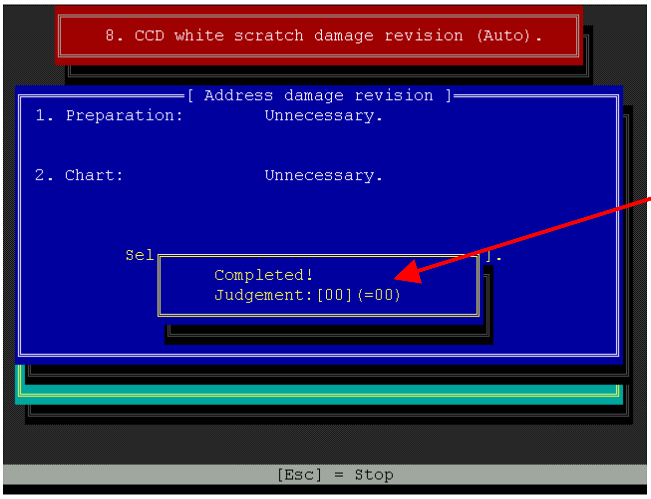
```
8. CCD white scratch damage revision (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >

< When it is defect >

                OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
8. CCD white scratch damage revision (Auto).

[ Address damage revision ]
1. Preparation:        Unnecessary.

2. Chart:              Unnecessary.

      Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



```
8. CCD white scratch damage revision (Auto).

[ Address damage revision ]
1. Preparation:        Unnecessary.

2. Chart:              Unnecessary.

      Sel
          Completed!
          Judgement:[00](=00)

[Esc] = Stop
```

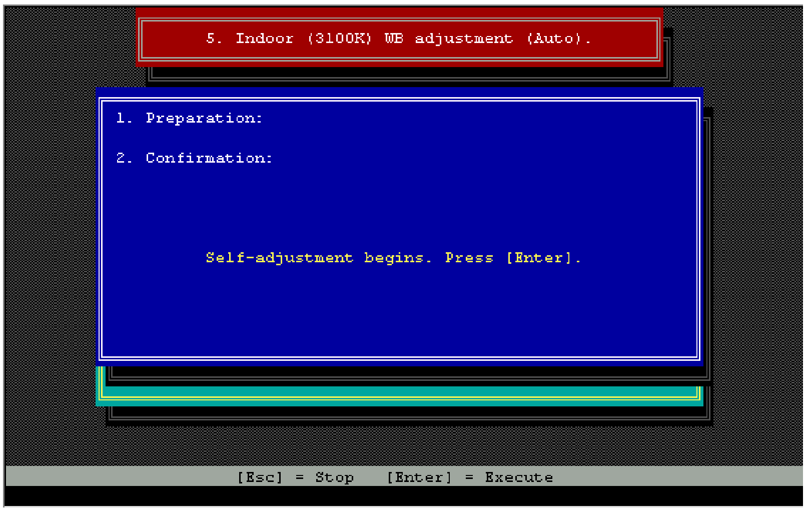
When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

6-8. White Balance Adjustment (AUTO)

This adjustment is automatically executed.
Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.

6-8-1. Indoor (3100K) White Balance Adjustment (AUTO)

1. Set the AUTO/MANUAL SELECT SW to MANUAL position.
2. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
3. Execute the ABB by press WHITE BAL button.
4. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
5. Open the **“Camera adjustment menu”**.
6. Select **“9. White Balance adjustment”** in the Camera adjustment menu, and then press the **“Enter”** key.
7. Select **“5. Indoor (3100K) WB adjustment (Auto)”** in the White balance adjustment menu, and then press the **“Enter”** key.



5. Indoor (3100K) WB adjustment (Auto).

1. Preparation:

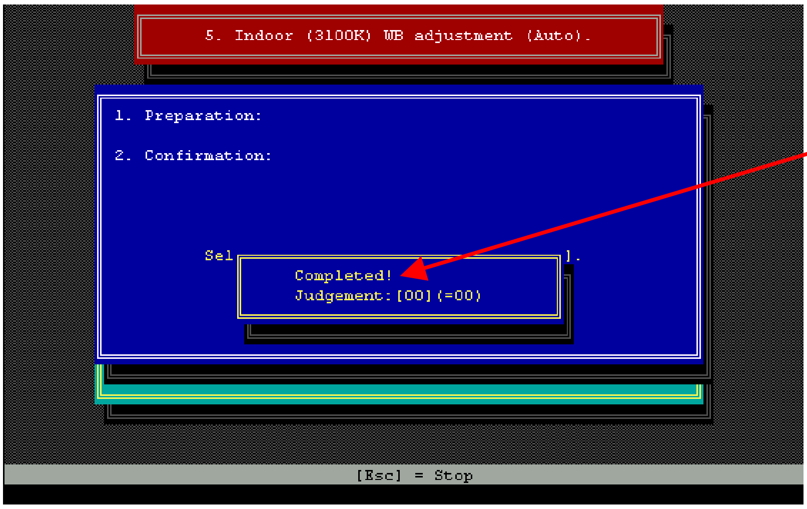
2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop [Enter] = Execute

PRESS ENTER KEY, then adjustment is started.

⇩



5. Indoor (3100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel].

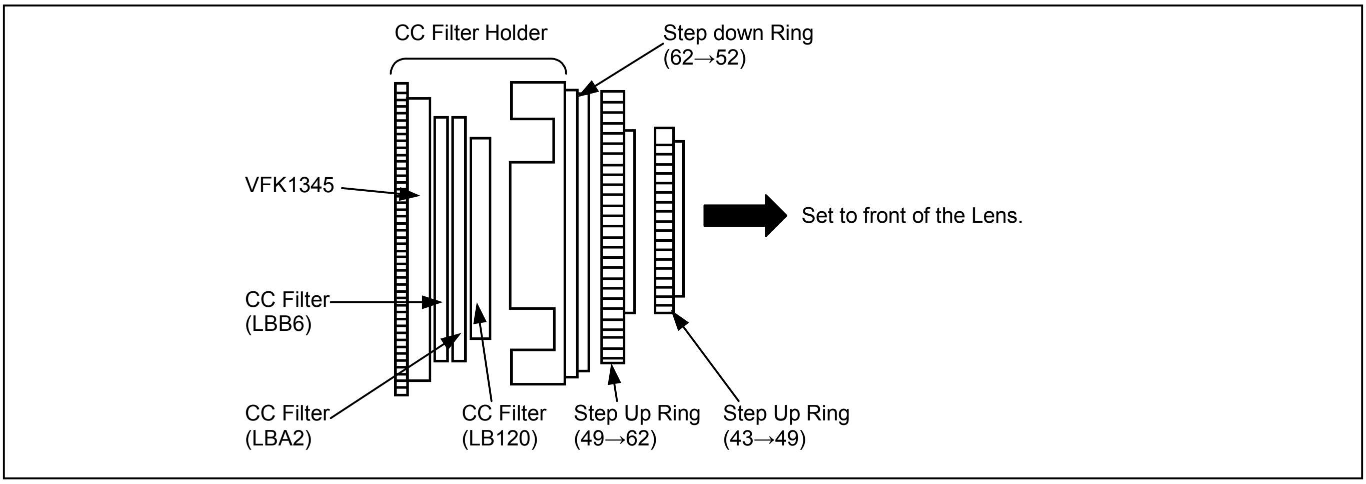
Completed!
Judgement:[00](=00)

[Esc] = Stop

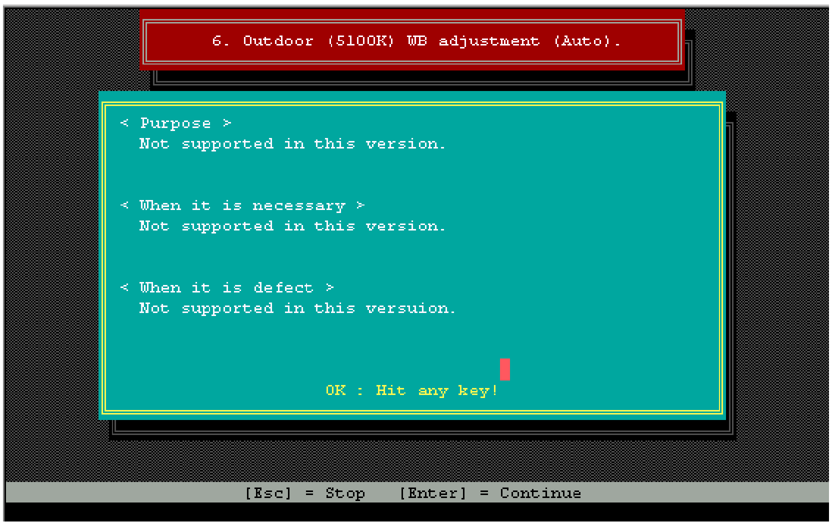
When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.

6-8-2. Outdoor (5100K) White Balance Adjustment (Auto)

1. Set the Color Conversion filters (LB120 : VFK1347), (LBA2 : VFK1884) and (LBB6 : VFK1888) to CC Filter Holder (VFK1345).
2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.

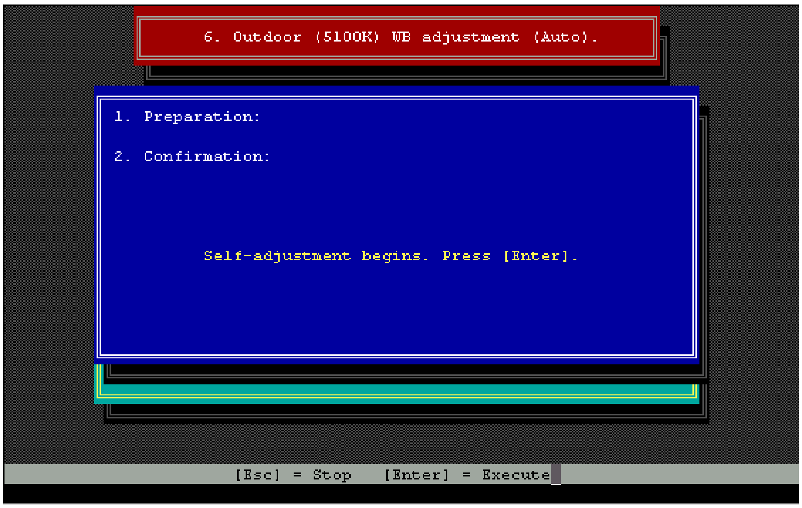

CC Filter Holder
Step down Ring
(62→52)
VFK1345
Set to front of the Lens.
CC Filter
(LBB6)
CC Filter
(LBA2)
CC Filter
(LB120)
Step Up Ring
(49→62)
Step Up Ring
(43→49)

4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **“Camera adjustment menu”**.
9. Select **“9. White Balance adjustment”** in the Camera adjustment menu, and then press the **“Enter”** key.
10. Select **“6. Outdoor (5100K) WB adjustment (Auto)”** in the White balance adjustment menu, and then press the **“Enter”** key.



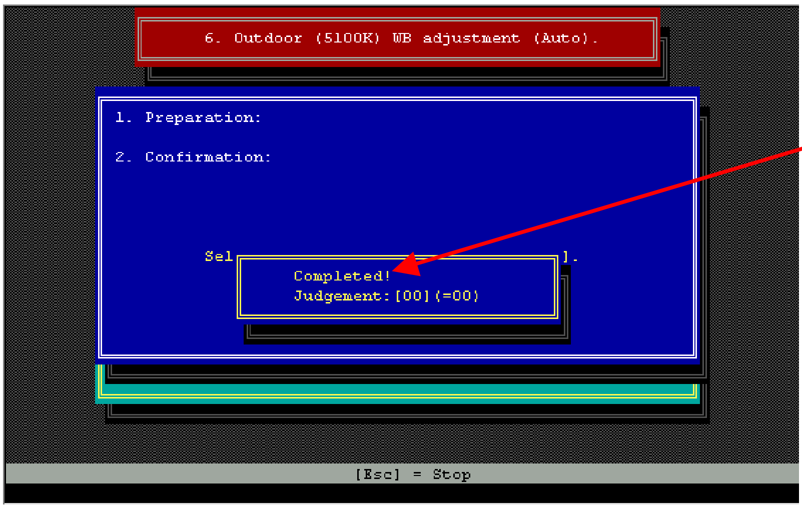
```
6. Outdoor (5100K) WB adjustment (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >
  Not supported in this version.

< When it is defect >
  Not supported in this versuion.

              OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
6. Outdoor (5100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

        Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



```
6. Outdoor (5100K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

        Sel                                  ].
              Completed!
              Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.

6-8-3. Cool white (4500K) White Balance Adjustment (Auto)

< In case of NTSC model >

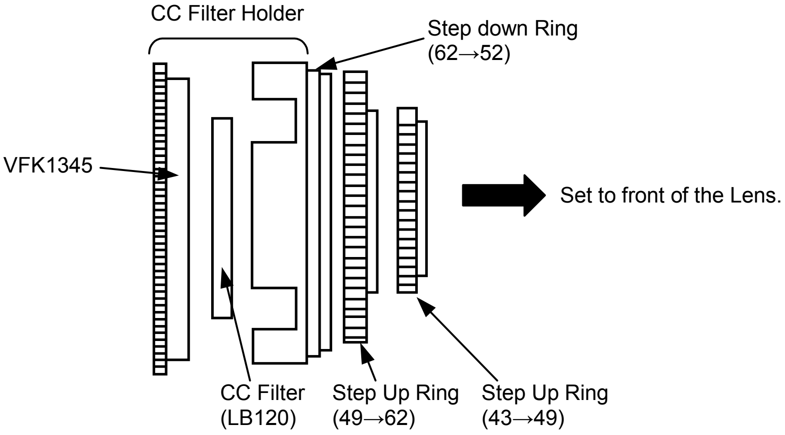
1. Set the Color Conversion filters (LB120 : VFK1347) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (LB80 : VFK1342) and (CC C20 : VFK1887) to CC Filter Holder (VFK1345).

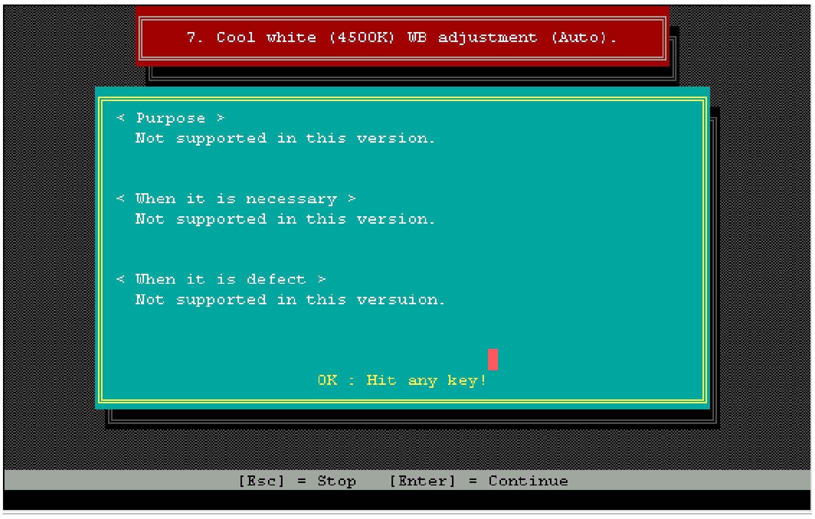
< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.



NOTE: Above figure described in case of NTSC.

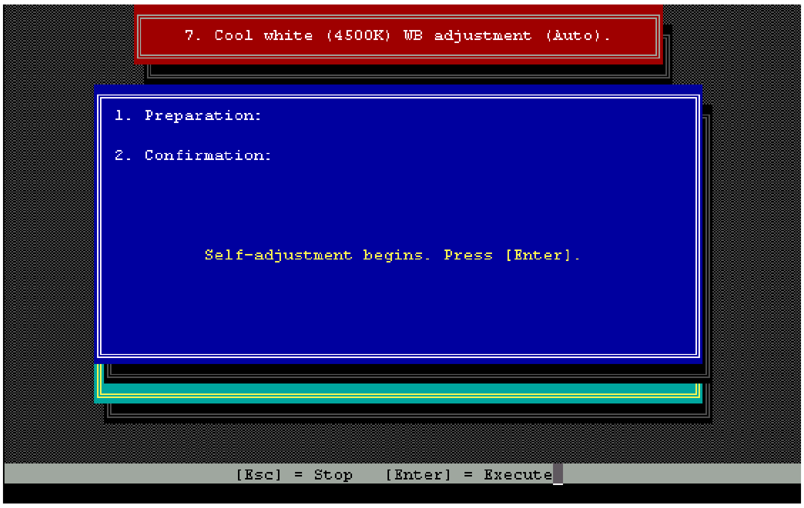
4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **"Camera adjustment menu"**.
9. Select **"9. White Balance adjustment"** in the Camera adjustment menu, and then press the **"Enter"** key.
10. Select **"7. Cool white (4500K) WB adjustment (Auto)"** in the White balance adjustment menu, and then press the **"Enter"** key.



```
7. Cool white (4500K) WB adjustment (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >
  Not supported in this version.

< When it is defect >
  Not supported in this versuion.

                    OK : Hit any key!

        [Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.

⇩



7. Cool white (4500K) WB adjustment (Auto).

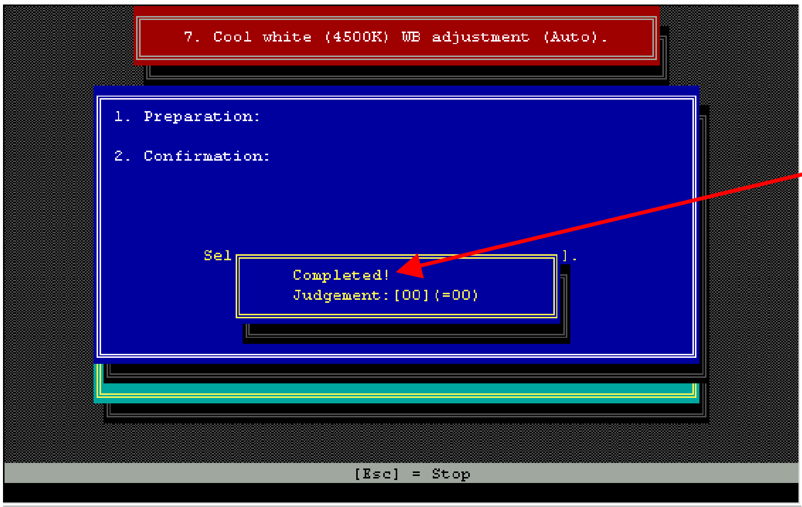
1. Preparation:

2. Confirmation:

Self-adjustment begins. Press [Enter].

PRESS ENTER KEY, then adjustment is started.

⇩



7. Cool white (4500K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel].

Completed!
Judgement:[00](=00)

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”.**

6-8-4. Warm white (3600K) White Balance Adjustment (Auto)

< In case of NTSC model >

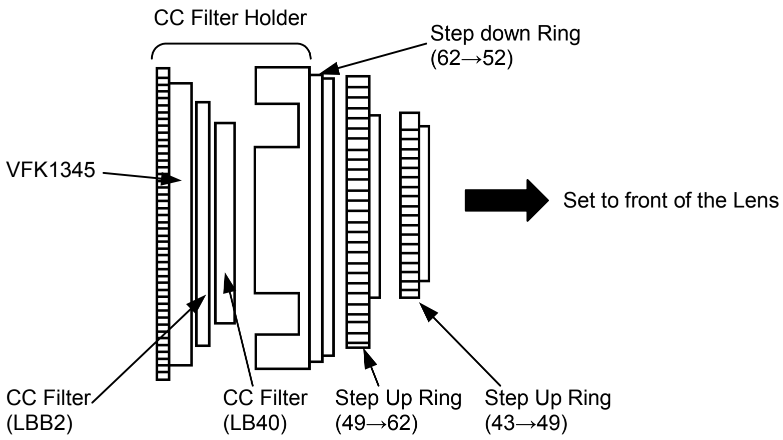
1. Set the Color Conversion filters (LB40 : VFK1341) and (LBB2 : VFK1885) to CC Filter Holder (VFK1345).

< In case of PAL model >

1. Set the Color Conversion filters (CC C10 : VFK1886) to CC Filter Holder (VFK1345).

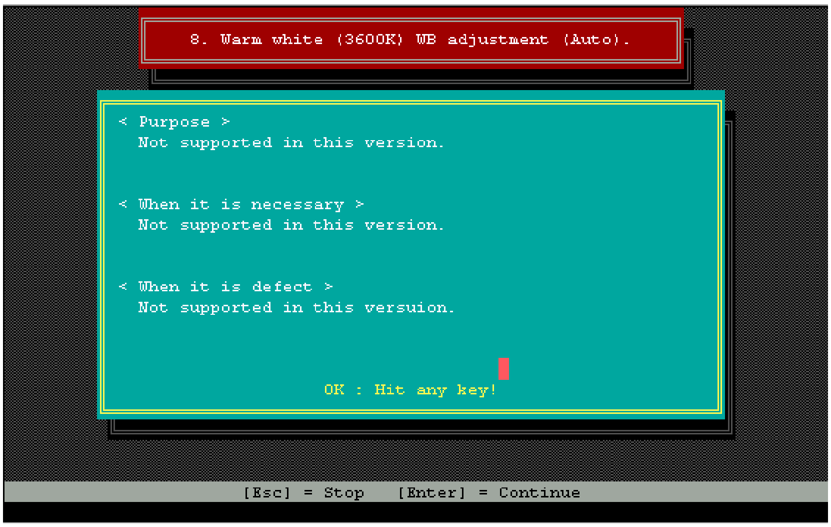
< Common procedure >

2. Set the one Step-down Ring (VFK1346) and two Step Up Rings (VFK1659, VFK1660) to CC Filter Holder as shown in figure.
3. Set the CC Filter Holder with Step-up & down Rings to front of the Lens.



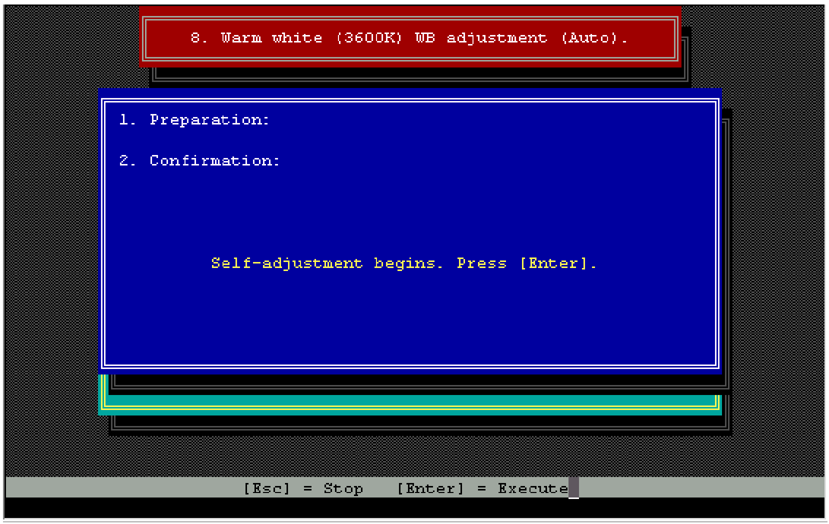
NOTE: Above figure described in case of NTSC.

4. Set the AUTO/MANUAL SELECT SW to MANUAL position.
5. Aim the camera recorder at Grayscale Chart under the Halogen lamp condition (3100K, 2000Lux).
6. Execute the ABB by press WHITE BAL button.
7. Set the AUTO/MANUAL SELECT SW to AUTO position (AUTO IRIS & AWB mode).
8. Open the **“Camera adjustment menu”**.
9. Select **“9. White Balance adjustment”** in the Camera adjustment menu, and then press the **“Enter”** key.
10. Select **“8. Wram white (3600K) WB adjustment (Auto)”** in the White balance adjustment menu, and then press the **“Enter”** key.



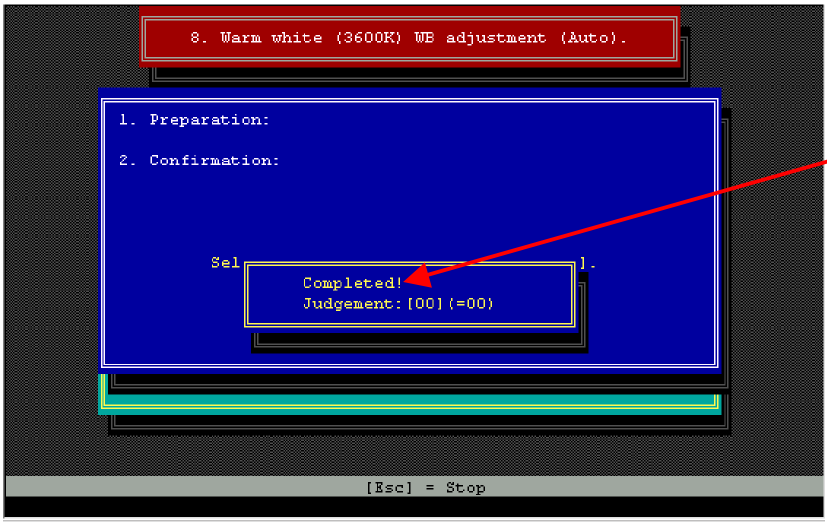
```
8. Warm white (3600K) WB adjustment (Auto).

< Purpose >
  Not supported in this version.

< When it is necessary >
  Not supported in this version.

< When it is defect >
  Not supported in this versuion.

                OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
8. Warm white (3600K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY, then adjustment is started.



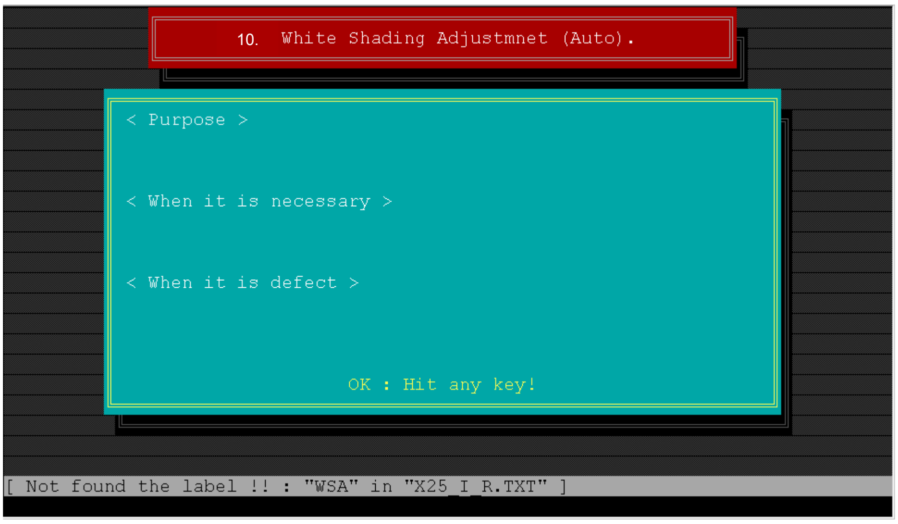
```
8. Warm white (3600K) WB adjustment (Auto).

1. Preparation:

2. Confirmation:

Sel                                  ].
      Completed!
      Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.

6-9. White Shading Adjustment

This adjustment is automatically executed.

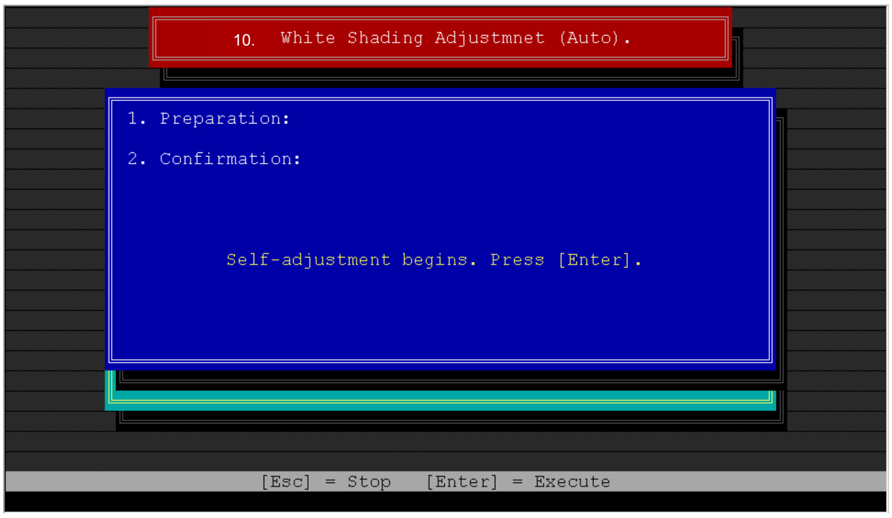
1. Aim the camera recorder at white paper (use clear white paper) under the Halogen lamp condition.
2. Shoot the white paper to fully fill entire screen.
3. Set the AUTO/MANUAL SELECT switch to MANUAL position.
4. Press WHITE BAL button until mark ”◺■◿ “ displayed as flash condition to execute white balance adjustment.
5. Keep pressing WHITE BAL button “◺■◿ “ display switching over to the light from the flash.
6. Press ZEBRA button to display the marker on the screen (When press the ZEBRA button, a zebra pattern is displayed and when pushing the ZEBRA button once again, it displays a marker at the center of the screen).
7. Press MULTI-DIAL to display the F-number.
8. Adjust the MULTI-DIAL to the luminance level to become 70 to 80% (luminance level can be confirm by numerical value, which displayed lower left corner of screen).
9. Open the **“Camera adjustment menu”** in EVR software.
10. Select **“10. White Shading Adjustment (Auto)”** in the Camera adjustment menu, and then press the **“Enter”** key.
11. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
10.  White Shading Adjustmnet (Auto).

< Purpose >

< When it is necessary >

< When it is defect >

OK : Hit any key!

[ Not found the label !! : "WSA" in "X25_I_R.TXT" ]
```

PRESS ENTER KEY.

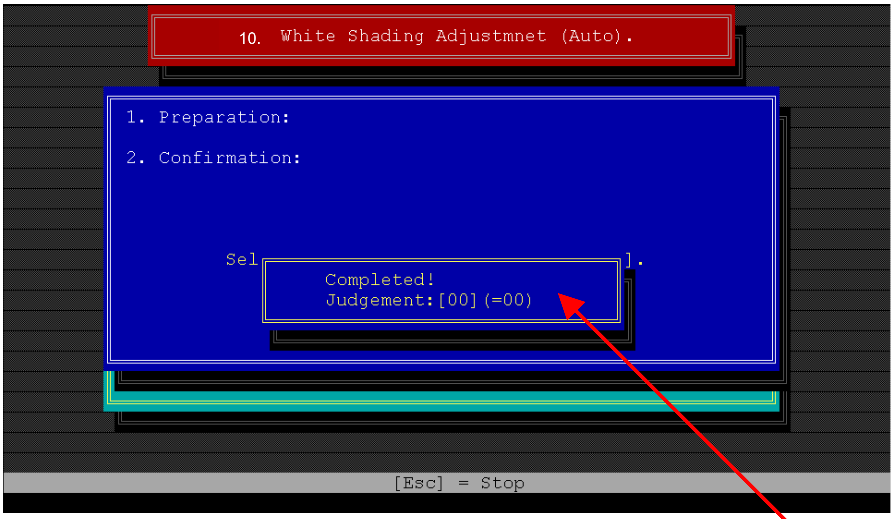
⇩



```
10.  White Shading Adjustmnet (Auto).

1. Preparation:
2. Confirmation:

Self-adjustment begins. Press [Enter].

[Esc] = Stop    [Enter] = Execute
```

PRESS ENTER KEY,
then adjustment is started.

⇩



```
10.  White Shading Adjustmnet (Auto).

1. Preparation:

2. Confirmation:

Sel                                   ].
         Completed!
         Judgement:[00](=00)

[Esc] = Stop
```

When adjustment is finished, message **“Completed!”** appears and numerical value is changed **“00”**.
The program goes to Camera adjustment menu automatically.

7. VTR ADJUSTMENT PROCEDURE

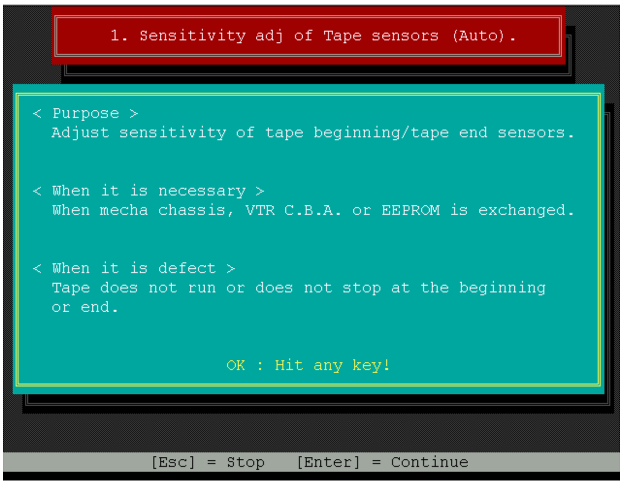
Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.

Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

7-1. Sensitivity adj of Tape sensors Adjustment (AUTO)

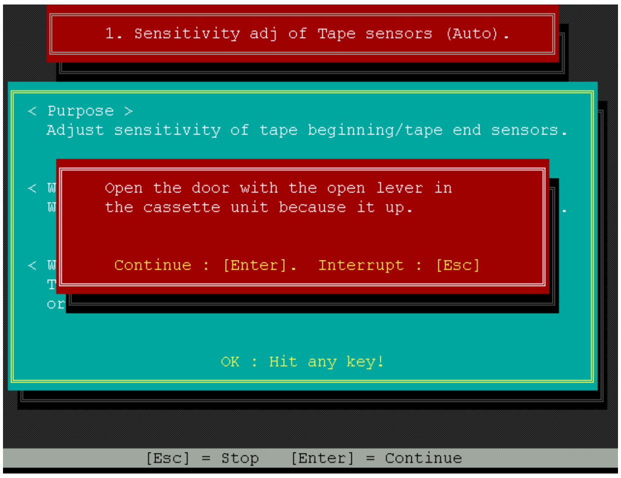
This adjustment is automatically executed.

1. Open the REC Inhibit Tab (SAVE side) of Tape End/Beg. Sensor Cassette (VFK1217).
2. Insert the Tape End/Beg. Sensor Cassette (VFK1217) into the camera recorder.
3. Open the **"Video adjustment menu"**.
4. Select **"1. Sensitivity adj of Tape sensors (Auto)"** in the Video adjustment menu, and then press the **"Enter"** key.



```
1. Sensitivity adj of Tape sensors (Auto).

< Purpose >
  Adjust sensitivity of tape beginning/tape end sensors.


< When it is necessary >
  When mecha chassis, VTR C.B.A. or EEPROM is exchanged.


< When it is defect >
  Tape does not run or does not stop at the beginning
  or end.


                  OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

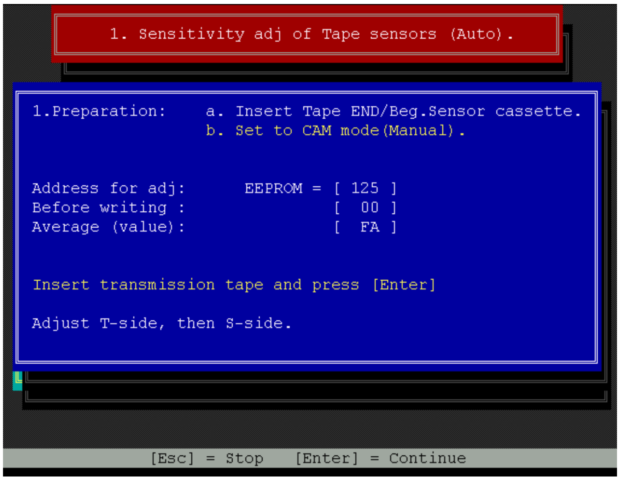
PRESS ENTER KEY.



```
1. Sensitivity adj of Tape sensors (Auto).

< Purpose >
  Adjust sensitivity of tape beginning/tape end sensors.

< W    Open the door with the open lever in
  W    the cassette unit because it up.                  .

< W     Continue : [Enter].  Interrupt : [Esc]
  T
  or


                  OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

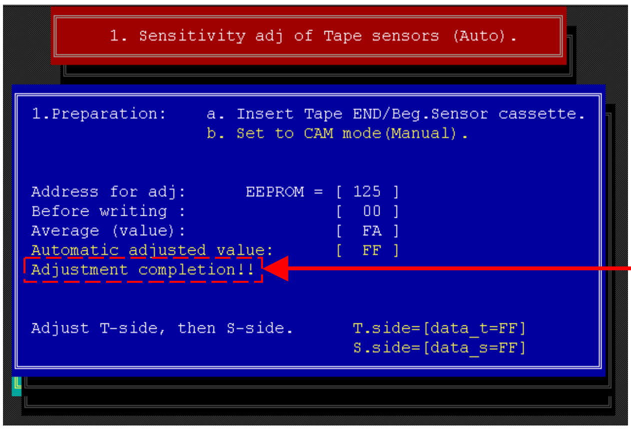
Unnecessary open the door, PRESS ENTER KEY.

5. Set to CAMERA mode in camera recorder following the message **"Auto / Manually set to CAMERA mode."**, and then press the **"Enter"** key.



```
1. Sensitivity adj of Tape sensors (Auto).

1.Preparation:    a. Insert Tape END/Beg.Sensor cassette.
                  b. Set to CAM mode(Manual).


Address for adj:      EEPROM = [ 125 ]
Before writing :               [  00 ]
Average (value):               [  FA ]


Insert transmission tape and press [Enter]

Adjust T-side, then S-side.

[Esc] = Stop    [Enter] = Continue
```

In case of the **"Tape END / Beg. Sensor cassette (VFK1217)"** is already inserted, PRESS ENTER KEY.



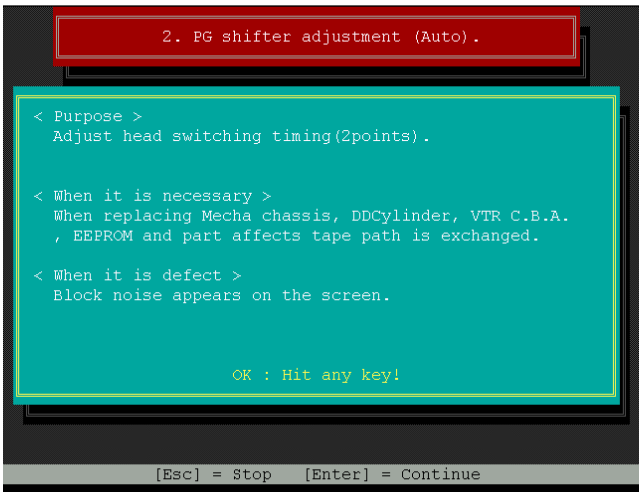
```
1. Sensitivity adj of Tape sensors (Auto).

1.Preparation:     a. Insert Tape END/Beg.Sensor cassette.
                   b. Set to CAM mode(Manual).

Address for adj:       EEPROM = [ 125 ]
Before writing :                [  00 ]
Average (value):                [  FA ]
Automatic adjusted value:       [  FF ]
Adjustment completion!!

Adjust T-side, then S-side.        T.side=[data_t=FF]
                                   S.side=[data_s=FF]
```

Please confirm this message appears on screen, then adjustment is finished.

7-2. PG shifter Adjustment (AUTO)

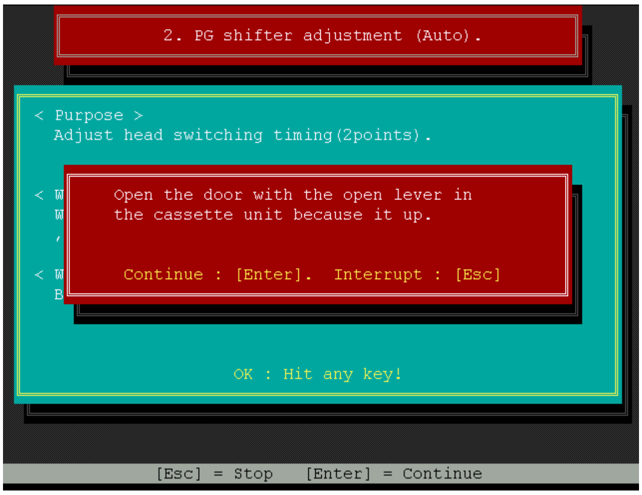
This adjustment is automatically executed.

1. Connect the oscilloscope to **“HID”** and **“SPA”** on the VFK1308P.
2. Insert the DV color bar alignment tape (VFM3010EDS: NTSC or VFM3110EDS: PAL) into the camera recorder.
3. Open the **“Video adjustment menu”**.
4. Select **“2. PG shifter adjustment (Auto)”** in the Video adjustment menu, and then press the **“Enter”** key.
5. Set to VCR mode in camera recorder follow the message **“Manually set to VCR mode.”**, and then press the **“Enter”** key.



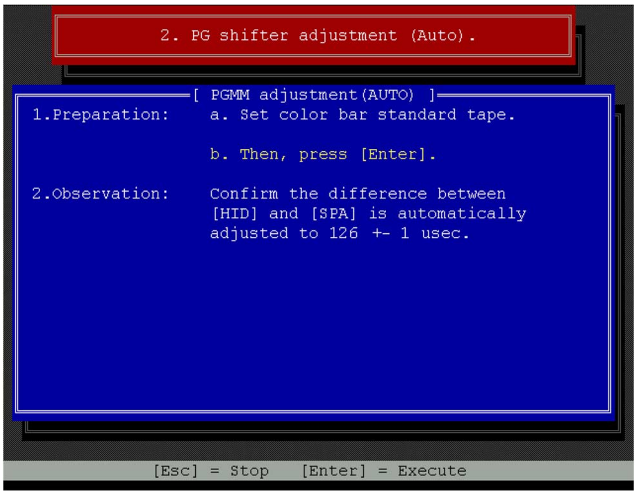
```
2. PG shifter adjustment (Auto).

< Purpose >
  Adjust head switching timing(2points).

< When it is necessary >
  When replacing Mecha chassis, DDCylinder, VTR C.B.A.
  , EEPROM and part affects tape path is exchanged.

< When it is defect >
  Block noise appears on the screen.

                OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

PRESS ENTER KEY.



```
2. PG shifter adjustment (Auto).

< Purpose >
  Adjust head switching timing(2points).

     Open the door with the open lever in
     the cassette unit because it up.

      Continue : [Enter].  Interrupt : [Esc]

                OK : Hit any key!

[Esc] = Stop    [Enter] = Continue
```

It is unnecessary to open the door, PRESS ENTER KEY.



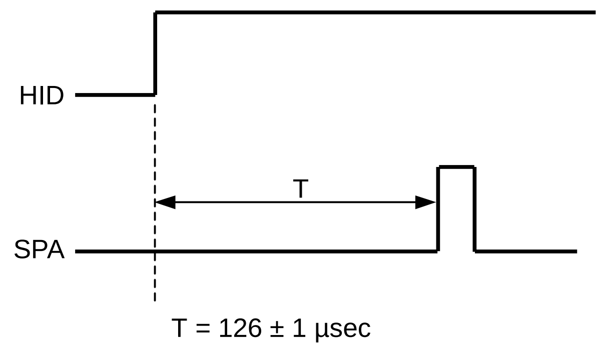
```
2. PG shifter adjustment (Auto).

[ PGMM adjustment(AUTO) ]
1.Preparation:    a. Set color bar standard tape.

                  b. Then, press [Enter].

2.Observation:    Confirm the difference between
                  [HID] and [SPA] is automatically
                  adjusted to 126 +- 1 usec.

[Esc] = Stop   [Enter] = Execute
```

In case the DV color bar alignment tape is already inserted, PRESS ENTER KEY, then adjustment is started.

NOTE:

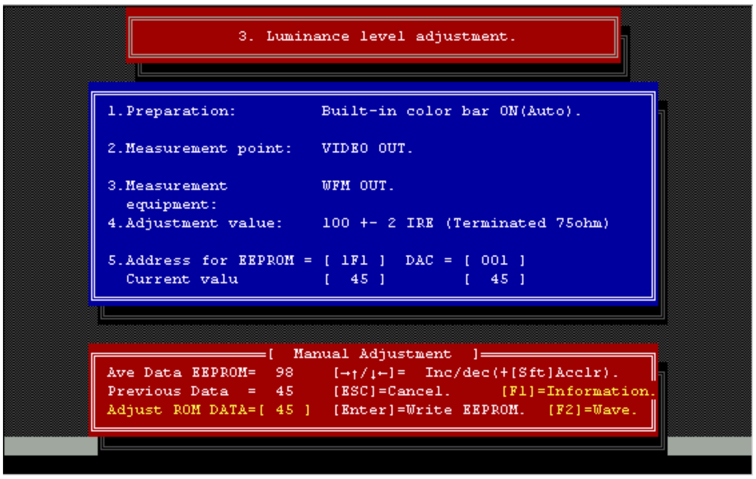
When the screen change to the following screen, camera recorder goes to STBY ON from STBY OFF mode. Press ENTER key after the camera recorder change to STBY ON mode completely.

After finishing adjustment, please confirm that the portion **"T"** is within the specification as shown in figure with an oscilloscope.



7-3. Luminance level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm termination.
2. Open the **“Video adjustment menu”**.
3. Select **“3. Luminance level adjustment”** in the Video adjustment menu, and then press the **“Enter”** key.
4. Set to CAMERA mode in camera recorder following the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
3. Luminance level adjustment.

1.Preparation:          Built-in color bar ON(Auto).

2.Measurement point:    VIDEO OUT.

3.Measurement           WFM OUT.
  equipment:
4.Adjustment value:     100 +- 2 IRE (Terminated 75ohm)

5.Address for EEPROM = [ 1F1 ]  DAC = [ 001 ]
  Current valu         [  45 ]        [  45 ]

==============[  Manual Adjustment  ]==============
Ave Data EEPROM=  98    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  45    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 45 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

NOTE:
This figure describes the NTSC model.

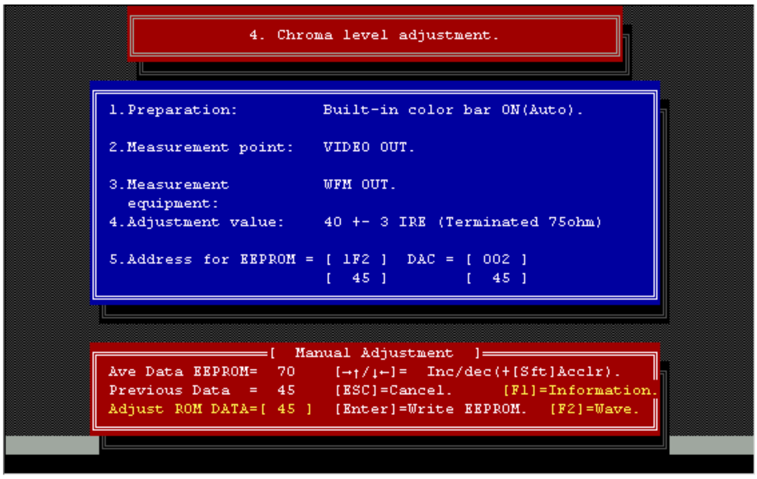
5. Adjust the arrow keys on PC so that the Y level becomes (100±2 IRE: NTSC model / 700±10 mVp-p: PAL model).

Note: 1) Y level can be adjusted by pressing arrow keys on keyboard.
2) The waveform(figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to white the adjusted data write to EEPROM.

7-4. Chroma level Adjustment

1. Connect the (WFM: NTSC model / oscilloscope: PAL model) to VIDEO OUT with 75ohm termination.
2. Open the **“Video adjustment menu”**.
3. Select **“4. Chroma level adjustment”** in the Video adjustment menu, and then press the **“Enter”** key.
4. Set to CAMERA mode in camera recorder follow the message **“Auto / Manually set to CAMERA mode.”**, and then press the **“Enter”** key.



```
4. Chroma level adjustment.

1.Preparation:          Built-in color bar ON(Auto).

2.Measurement point:    VIDEO OUT.

3.Measurement           WFM OUT.
  equipment:
4.Adjustment value:     40 +- 3 IRE (Terminated 75ohm)

5.Address for EEPROM = [ 1F2 ]  DAC = [ 002 ]
                       [  45 ]        [  45 ]

==============[  Manual Adjustment  ]==============
Ave Data EEPROM=  70    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  45    [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 45 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

NOTE:
This figure describes the NTSC model.

5. Adjust the arrow keys on PC so that the C level becomes (40±3: NTSC model / 300±20 mVp-p: PAL model).

Note: 1) C level can be adjusted by pressing arrow keys on keyboard.
2) The waveform(figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to white the adjusted data to EEPROM.

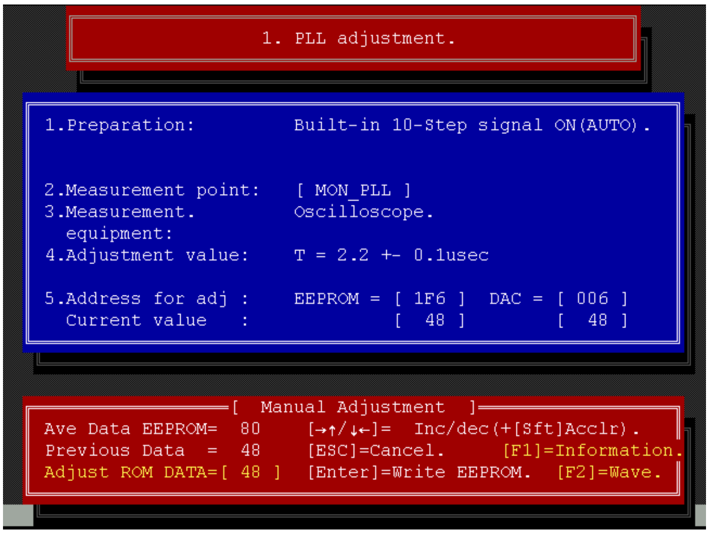
8. LCD ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

8-1. PLL Adjustment

1. Connect the oscilloscope to **“MON_PLL”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“1. PLL adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



```
1. PLL adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_PLL ]
3.Measurement.          Oscilloscope.
  equipment:
4.Adjustment value:     T = 2.2 +- 0.1usec

5.Address for adj :     EEPROM = [ 1F6 ]  DAC = [ 006 ]
  Current value   :              [  48 ]        [  48 ]

[ Manual Adjustment ]
Ave Data EEPROM=  80     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  48     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 48 ]   [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the width (T) becomes 2.2±0.1µsec as shown in figure on screen.

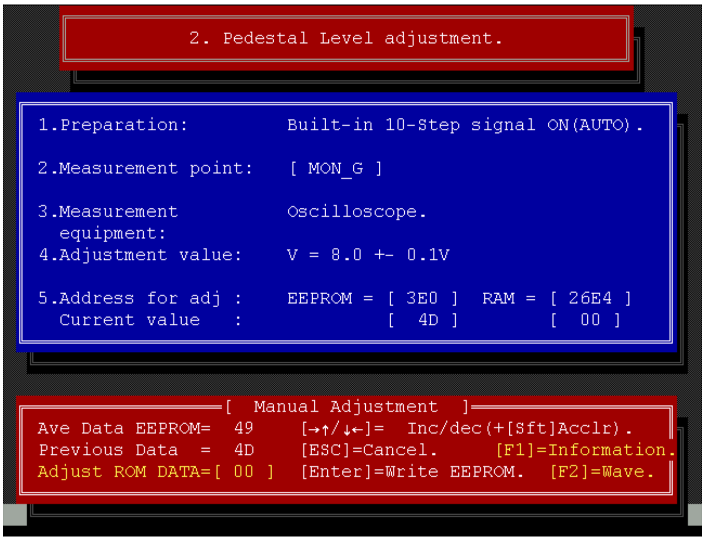
Note:

1) Width (T) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-2. Pedestal Level Adjustment

1. Connect the oscilloscope to **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“2. Pedestal Level adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



```
2. Pedestal Level adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:     V = 8.0 +- 0.1V

5.Address for adj :     EEPROM = [ 3E0 ]  RAM = [ 26E4 ]
  Current value   :              [  4D ]        [  00 ]

[ Manual Adjustment ]
Ave Data EEPROM=  49     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  4D     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 00 ]   [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the differential amplitude both 0 step-level (portion **“a”** in figure) to becomes 8.0±0.1V as shown in figure on screen.

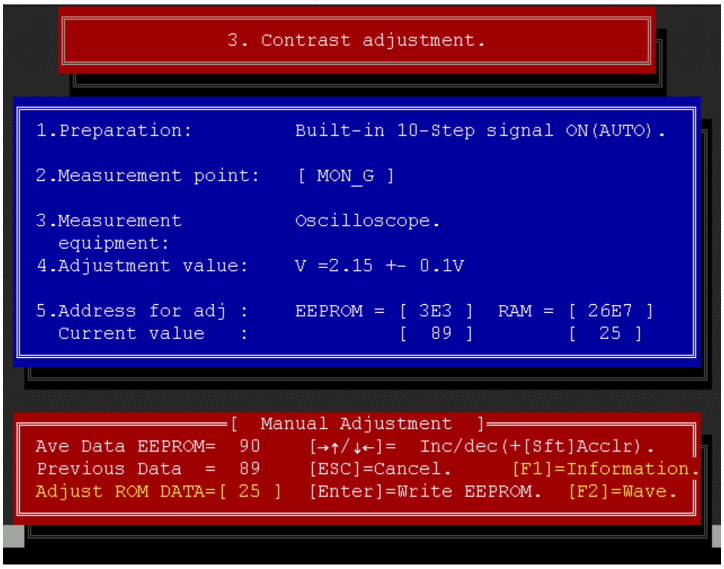
Note:

1) Level (a) can be by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-3. Contrast Adjustment

1. Connect the oscilloscope to **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“3. Contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



```
                3. Contrast adjustment.

 1.Preparation:          Built-in 10-Step signal ON(AUTO).

 2.Measurement point:    [ MON_G ]

 3.Measurement           Oscilloscope.
   equipment:
 4.Adjustment value:     V =2.15 +- 0.1V

 5.Address for adj :     EEPROM = [ 3E3 ]  RAM = [ 26E7 ]
   Current value   :              [  89 ]        [  25 ]

                    [  Manual Adjustment  ]
 Ave Data EEPROM=  90    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
 Previous Data  =  89    [ESC]=Cancel.      [F1]=Information.
 Adjust ROM DATA=[ 25 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the differential amplitude between 0 step-level and 7 step-level (portion **“V”** in figure) becomes 2.15±0.1V as shown in figure on screen.

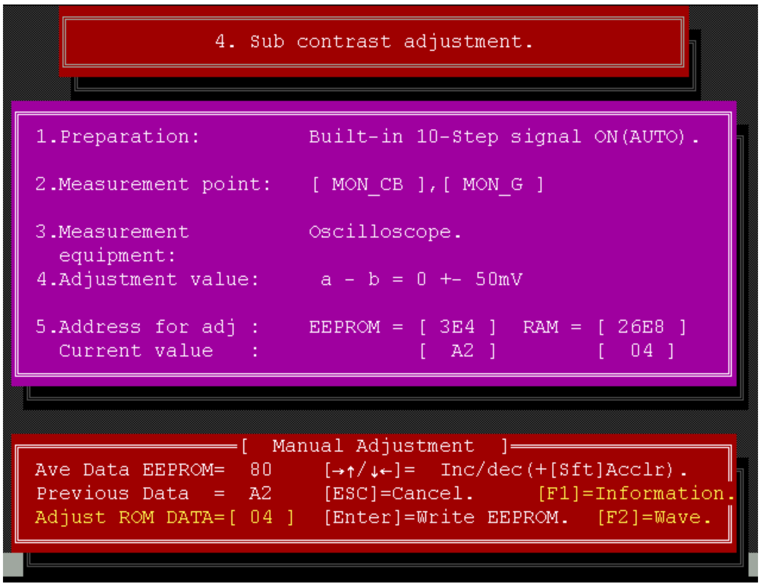
Note:

1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-4. Sub contrast Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“4. Sub contrast adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



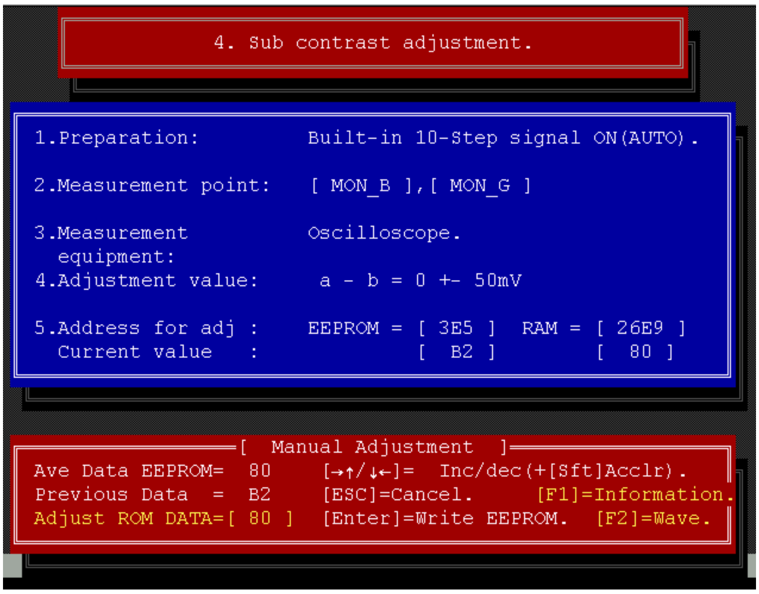
```
4. Sub contrast adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_CB ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 3E4 ]  RAM = [ 26E8 ]
  Current value   :              [  A2 ]        [   04 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  A2     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 04 ]   [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_CB) and **“b”** (MON_G) becomes 0±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



```
4. Sub contrast adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_B ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 3E5 ]  RAM = [ 26E9 ]
  Current value   :              [  B2 ]        [   80 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  B2     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 80 ]   [Enter]=Write EEPROM.  [F2]=Wave.
```

6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_B) and **“b”** (MON_G) to become 0±50mV as shown in figure on screen.

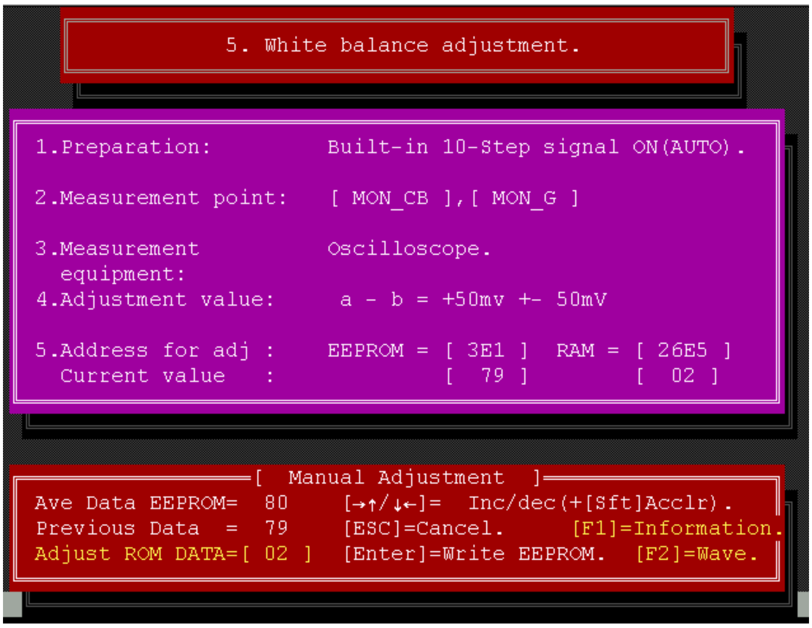
Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

8. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

8-5. White balance Adjustment

1. Connect the oscilloscope to **“MON_CB”** and **“MON_G”** on the VFK1308P.
2. Open the **“LCD adjustment menu”**.
3. Select **“5. White balance adjustment”** in the LCD adjustment menu, and then press the **“Enter”** key.



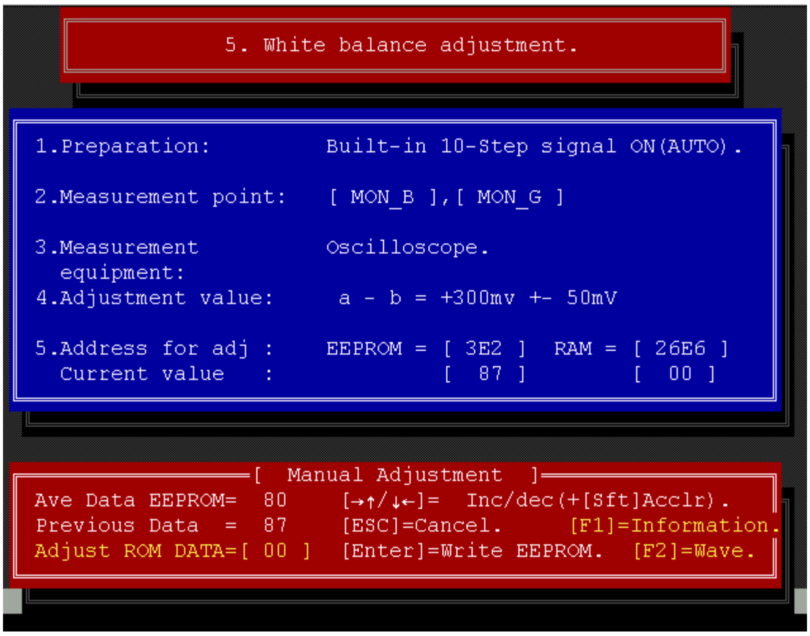
```
5. White balance adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_CB ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = +50mv +- 50mV

5.Address for adj :     EEPROM = [ 3E1 ]  RAM = [ 26E5 ]
  Current value   :              [  79 ]        [  02 ]

                  [  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  79    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 02 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

4. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_CB) and **“b”** (MON_G) becomes +50mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

5. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



```
5. White balance adjustment.

1.Preparation:          Built-in 10-Step signal ON(AUTO).

2.Measurement point:    [ MON_B ],[ MON_G ]

3.Measurement           Oscilloscope.
  equipment:
4.Adjustment value:      a - b = +300mv +- 50mV

5.Address for adj :     EEPROM = [ 3E2 ]  RAM = [ 26E6 ]
  Current value   :              [  87 ]        [  00 ]

                  [  Manual Adjustment  ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  87    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

6. Connect the oscilloscope to **“MON_B”** and **“MON_G”** on the VFK1308P.
7. Adjust the arrow keys on PC so that the level difference between **“a”** (MON_B) and **“b”** (MON_G) becomes +300mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. MON G is reference level.

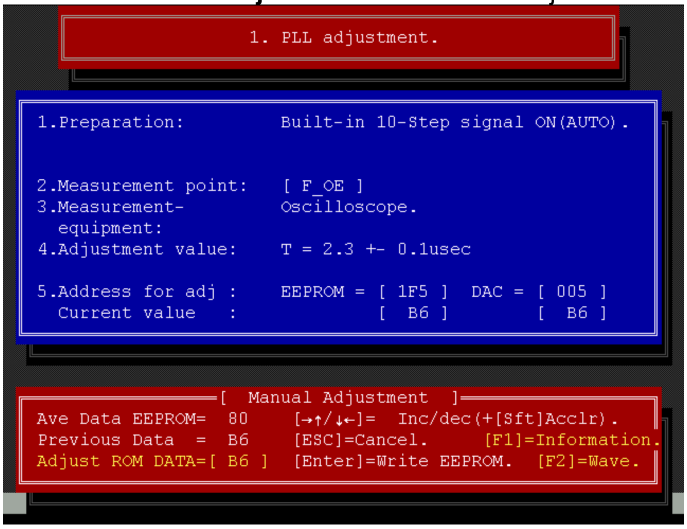
8. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9. EVF ADJUSTMENT PROCEDURE

Be sure to save the VTR adjustment data into the Personal Computer, before performing adjustment.
Perform the all PC-EVR adjustments, by referring to procedures on PC screen.
Note: Set to CAMERA mode in camera recorder.
Set the VTR TEST (SW103) switch on VFK1308P to L position.

9-1. EVF PLL Adjustment

1. Connect the oscilloscope to **“F_OE”** on the VFK1308P.
2. Open the **“EVF adjustment menu”**.
3. Select **“1. PLL adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



```
                 1. PLL adjustment.

 1.Preparation:          Built-in 10-Step signal ON(AUTO).


 2.Measurement point:    [ F_OE ]
 3.Measurement-          Oscilloscope.
   equipment:
 4.Adjustment value:     T = 2.3 +- 0.1usec

 5.Address for adj :     EEPROM = [ 1F5 ]  DAC = [ 005 ]
   Current value   :              [  B6 ]        [  B6 ]

 ═══════════════════[  Manual Adjustment  ]═══════════════
 Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
 Previous Data  =  B6    [ESC]=Cancel.     [F1]=Information.
 Adjust ROM DATA=[ B6 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

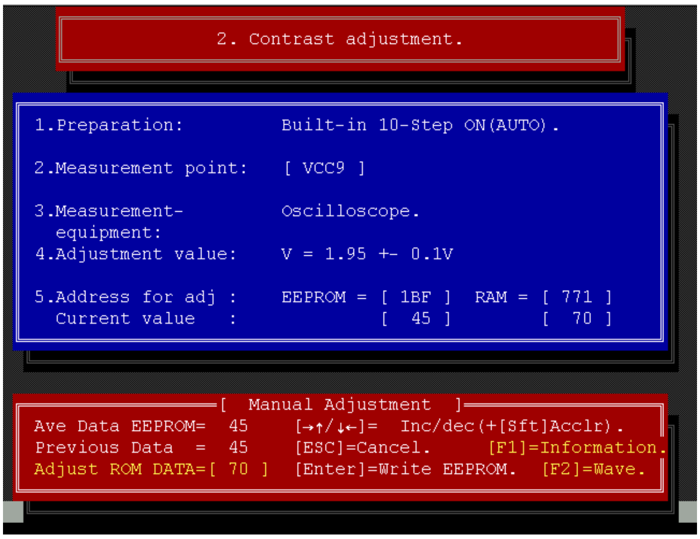
4. Adjust the arrow keys on PC so that the width (T) becomes 2.3±0.1µsec as shown in figure on screen.

Note:
1) Width (T) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

5. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-2. EVF Contrast Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“2. Contrast adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



```
               2. Contrast adjustment.

 1.Preparation:          Built-in 10-Step ON(AUTO).

 2.Measurement point:    [ VCC9 ]

 3.Measurement-          Oscilloscope.
   equipment:
 4.Adjustment value:     V = 1.95 +- 0.1V

 5.Address for adj :     EEPROM = [ 1BF ]  RAM = [ 771 ]
   Current value   :              [  45 ]        [  70 ]

 ═══════════════════[  Manual Adjustment  ]═══════════════
 Ave Data EEPROM=  45    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
 Previous Data  =  45    [ESC]=Cancel.     [F1]=Information.
 Adjust ROM DATA=[ 70 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

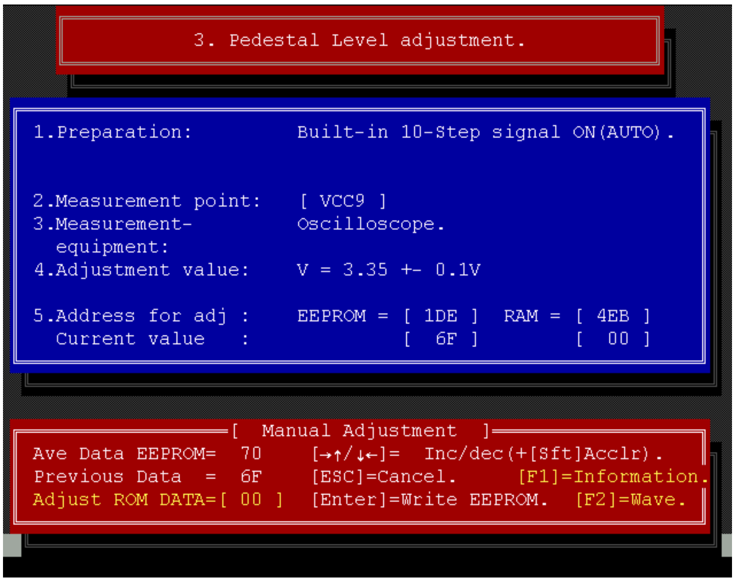
5. Adjust the arrow keys on PC so that the differential amplitude between 1 step-level and 10 step-level (portion **“V”** in figure) becomes 1.95±0.1V as shown in figure on screen.

Note: 1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-3. EVF Pedestal Level Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“3. Pedestal Level adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



```
              3. Pedestal Level adjustment.

 1.Preparation:          Built-in 10-Step signal ON(AUTO).


 2.Measurement point:    [ VCC9 ]
 3.Measurement-          Oscilloscope.
   equipment:
 4.Adjustment value:     V = 3.35 +- 0.1V

 5.Address for adj  :    EEPROM = [ 1DE ]  RAM = [ 4EB ]
   Current value    :             [  6F ]        [  00 ]

 ═══════════════════[  Manual Adjustment  ]═══════════════
 Ave Data EEPROM=  70    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
 Previous Data  =  6F    [ESC]=Cancel.     [F1]=Information.
 Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

5. Adjust the arrow keys on PC so that the differential amplitude both 10 step-level (portion **“V”** in figure) becomes 3.35±0.1V as shown in figure on screen.

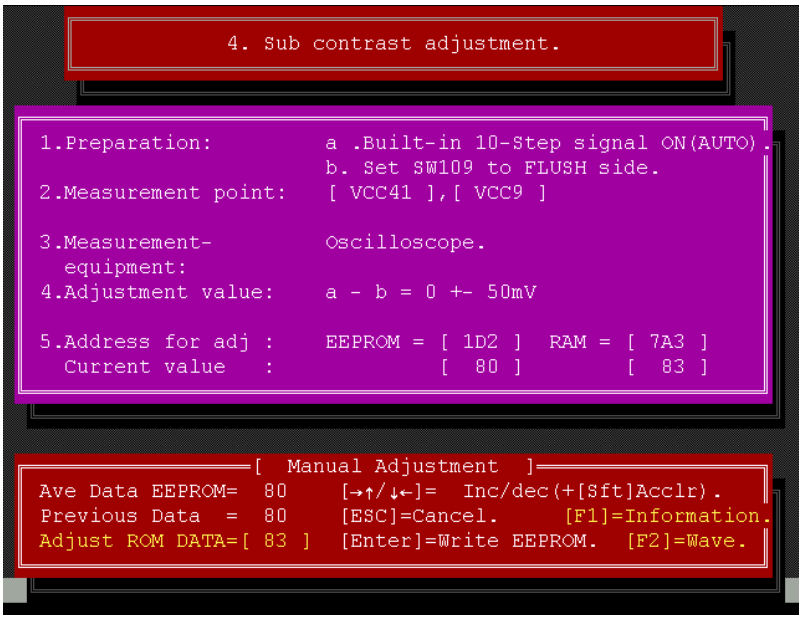
Note:

1) Level (V) can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM.

9-4. EVF Sub contrast Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC41”** and **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“4. Sub contrast adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



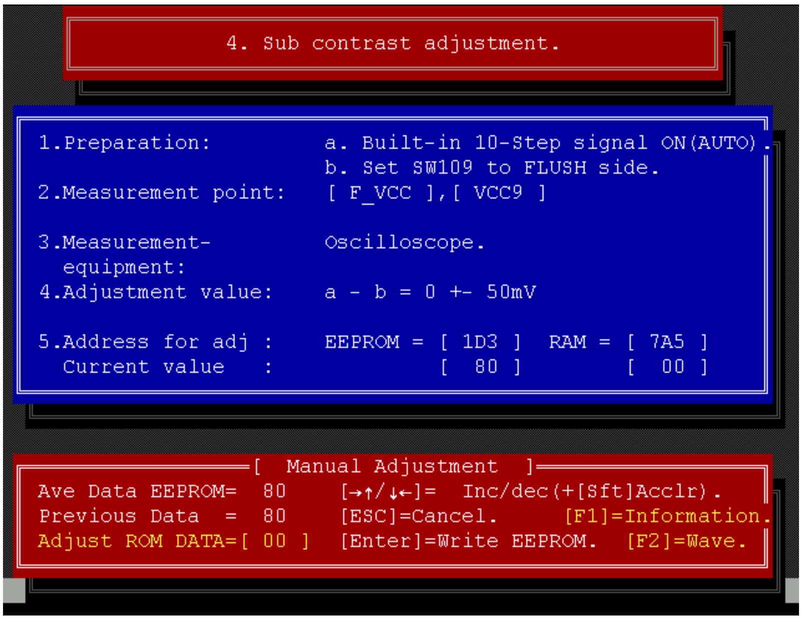
```
4. Sub contrast adjustment.

1.Preparation:          a .Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ VCC41 ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 1D2 ]  RAM = [ 7A3 ]
  Current value   :              [  80 ]        [  83 ]

[ Manual Adjustment ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  80    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 83 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

5. Adjust the arrow keys on PC so that the level difference between **“a”** (VCC41) and **“b”** (VCC9) becomes 0±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to write adjusted data to EEPROM, then change the display indicated as below.



```
4. Sub contrast adjustment.

1.Preparation:          a. Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ F_VCC ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = 0 +- 50mV

5.Address for adj :     EEPROM = [ 1D3 ]  RAM = [ 7A5 ]
  Current value   :              [  80 ]        [  00 ]

[ Manual Adjustment ]
Ave Data EEPROM=  80    [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  80    [ESC]=Cancel.     [F1]=Information.
Adjust ROM DATA=[ 00 ]  [Enter]=Write EEPROM.  [F2]=Wave.
```

7. Connect the oscilloscope to **“F_VCC”** and **“VCC9”** on the VFK1308P.
8. Adjust the arrow keys on PC so that the level difference between **“a”** (F_VCC) and **“b”** (VCC9) becomes 0±50mV as shown in figure on screen.

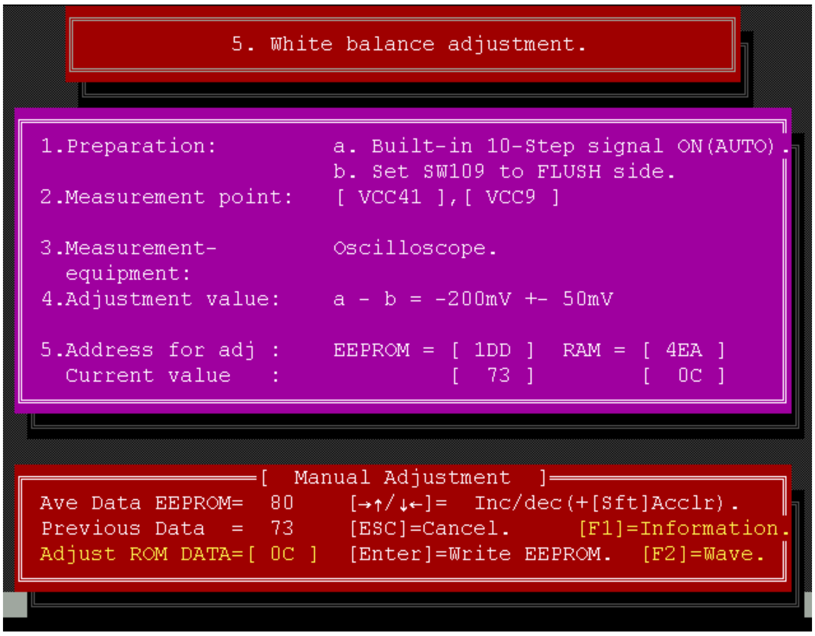
Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

9-5. EVF White balance Adjustment

1. Set SW109 to **“FLUSH”** side on the VFK1308P.
2. Connect the oscilloscope to **“VCC41”** and **“VCC9”** on the VFK1308P.
3. Open the **“EVF adjustment menu”**.
4. Select **“5. White balance adjustment”** in the EVF adjustment menu, and then press the **“Enter”** key.



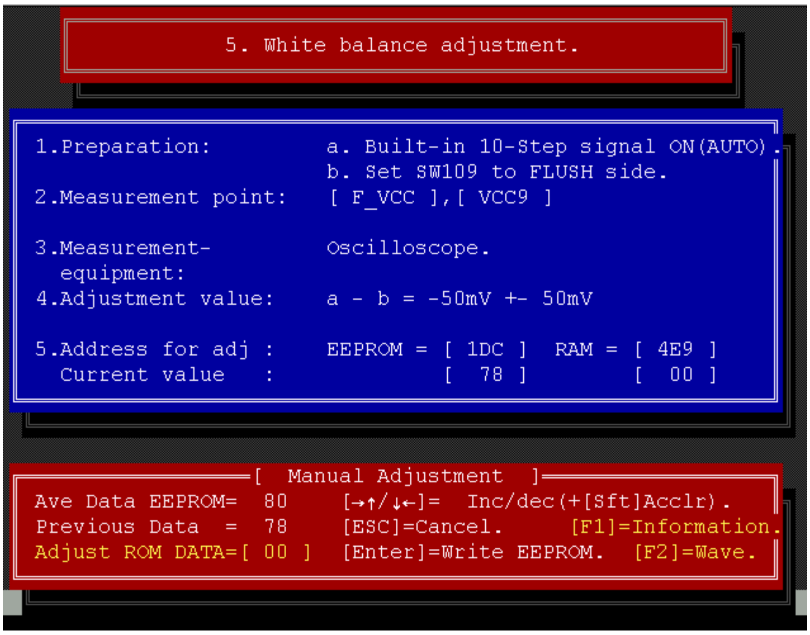
```
5. White balance adjustment.

1.Preparation:          a. Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ VCC41 ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = -200mV +- 50mV

5.Address for adj :     EEPROM = [ 1DD ]   RAM = [ 4EA ]
  Current value   :              [  73 ]         [  0C ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  73     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 0C ]   [Enter]=Write EEPROM.   [F2]=Wave.
```

5. Adjust the arrow keys on PC so that the level difference between **“a”** (VCC41) and **“b”** (VCC9) becomes -200mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

6. When adjustment is finished, press ENTER key to white adjusted data to EEPROM, then change the display indicated as below.



```
5. White balance adjustment.

1.Preparation:          a. Built-in 10-Step signal ON(AUTO).
                        b. Set SW109 to FLUSH side.
2.Measurement point:    [ F_VCC ],[ VCC9 ]

3.Measurement-          Oscilloscope.
  equipment:
4.Adjustment value:     a - b = -50mV +- 50mV

5.Address for adj :     EEPROM = [ 1DC ]   RAM = [ 4E9 ]
  Current value   :              [  78 ]         [  00 ]

[  Manual Adjustment  ]
Ave Data EEPROM=  80     [→↑/↓←]=  Inc/dec(+[Sft]Acclr).
Previous Data  =  78     [ESC]=Cancel.      [F1]=Information.
Adjust ROM DATA=[ 00 ]   [Enter]=Write EEPROM.   [F2]=Wave.
```

7. Connect the oscilloscope to **“F_VCC”** and **“VCC9”** on the VFK1308P.
8. Adjust the arrow keys on PC so that the level difference between **“a”** (F_VCC) and **“b”** (VCC9) to become –50mV±50mV as shown in figure on screen.

Note:

1) Signal level can be adjusted by pressing arrow keys on keyboard.
2) Waveform (figure) can be displayed by pressing F2 key.
3) Please measure the opposite side of waveform. VCC9 is reference level.

9. When adjustment is finished, press ENTER key to white adjusted data to EEPROM.

SECTION 5

BLOCK DIAGRAMS

CONTENTS

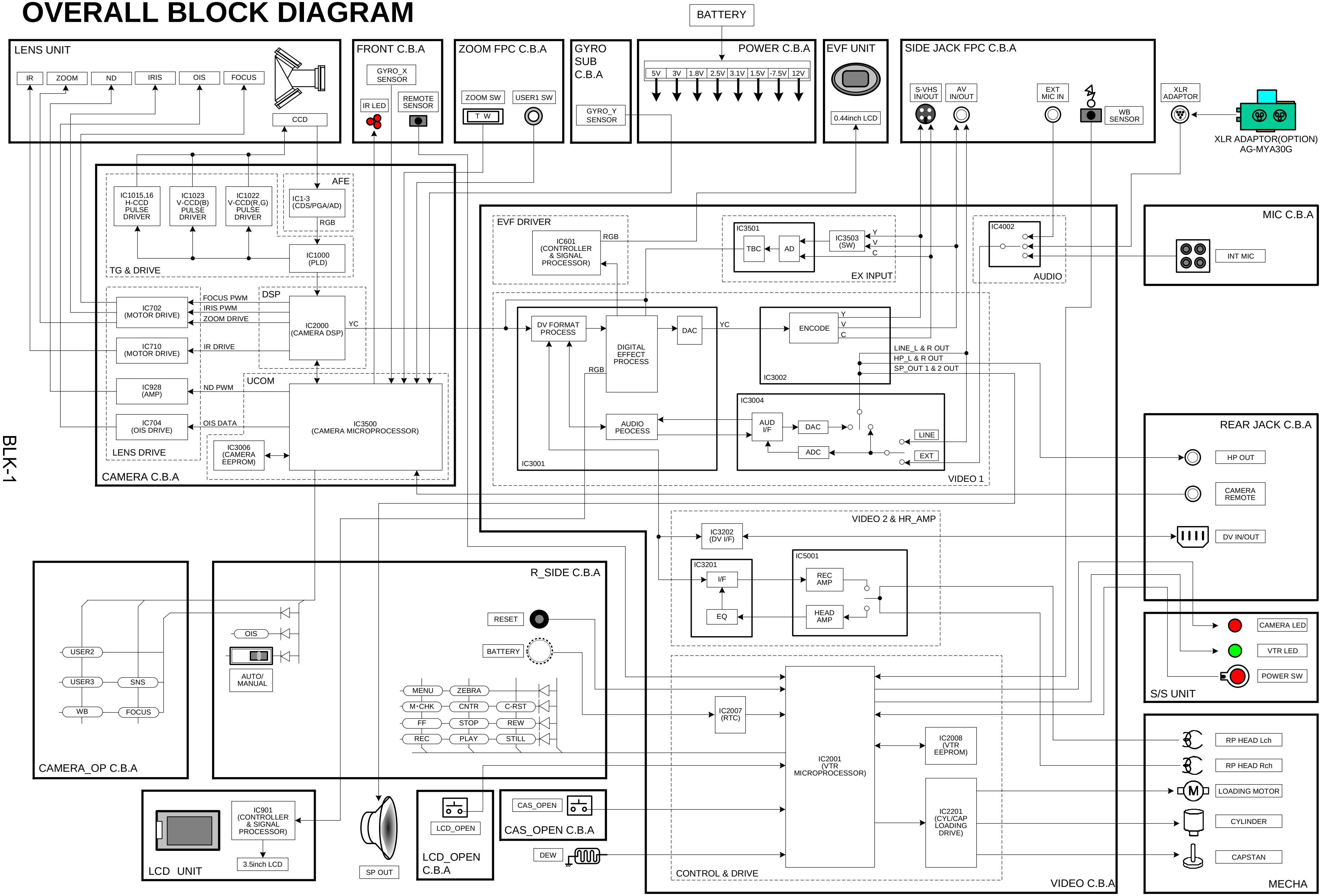
<< AG-DVC30/DVC32/DVC33 >>

OVERALL BLOCK DIAGRAM........BLK-1
SENSOR/PROCESS (CAMERA) BLOCK DIAGRAM........BLK-2
LENS DRIVE (CAMERA) BLOCK DIAGRAM........BLK-3
VIDEO (VTR) BLOCK DIAGRAM........BLK-4
MONITOR (VTR / LCD / EVF) BLOCK DIAGRAM........BLK-5
CONTROL (VTR) BLOCK DIAGRAM........BLK-6

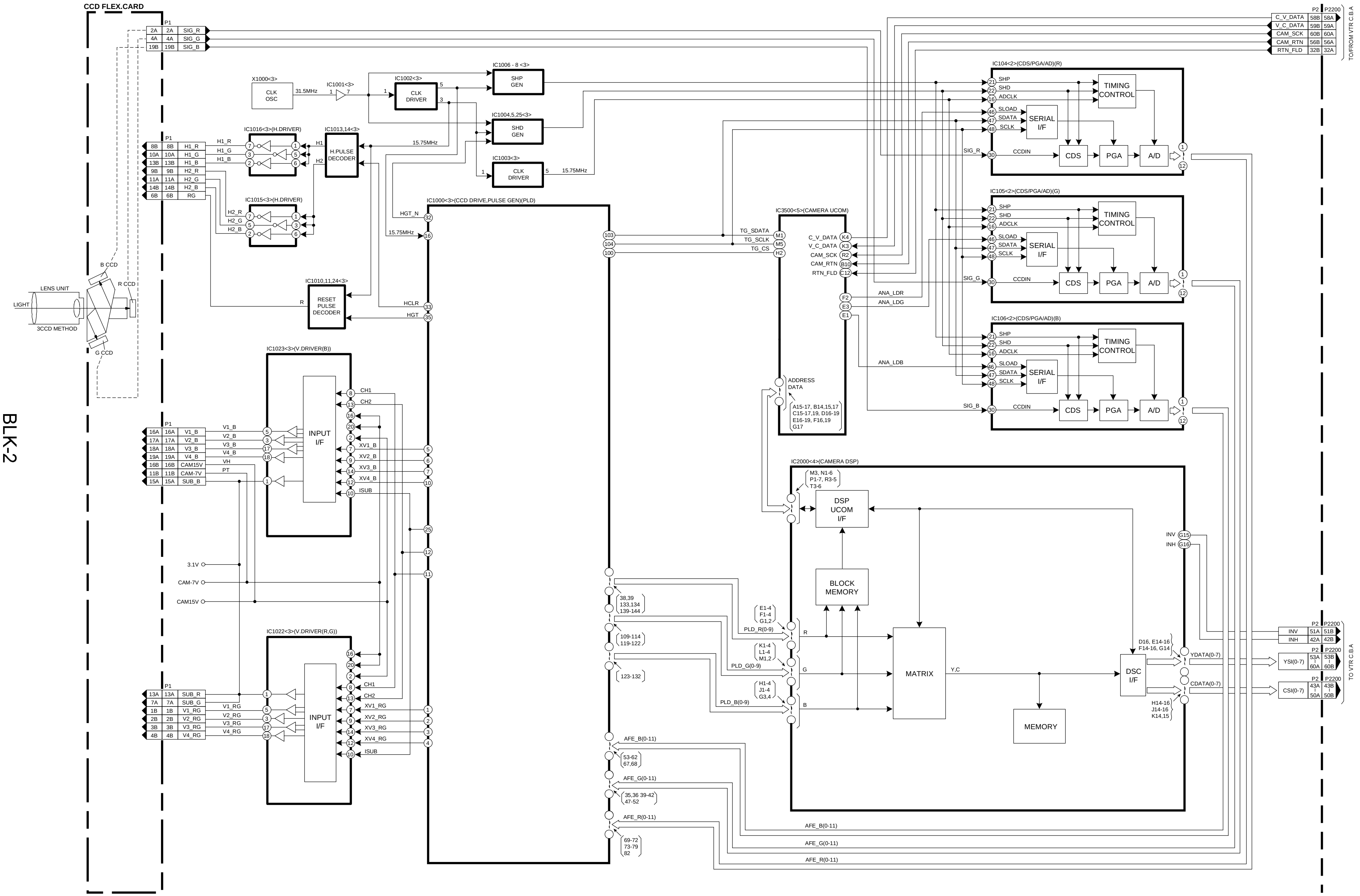
<< AG-MYA30G >>

OVERALL BLOCK DIAGRAM........BLK-7

OVERALL BLOCK DIAGRAM

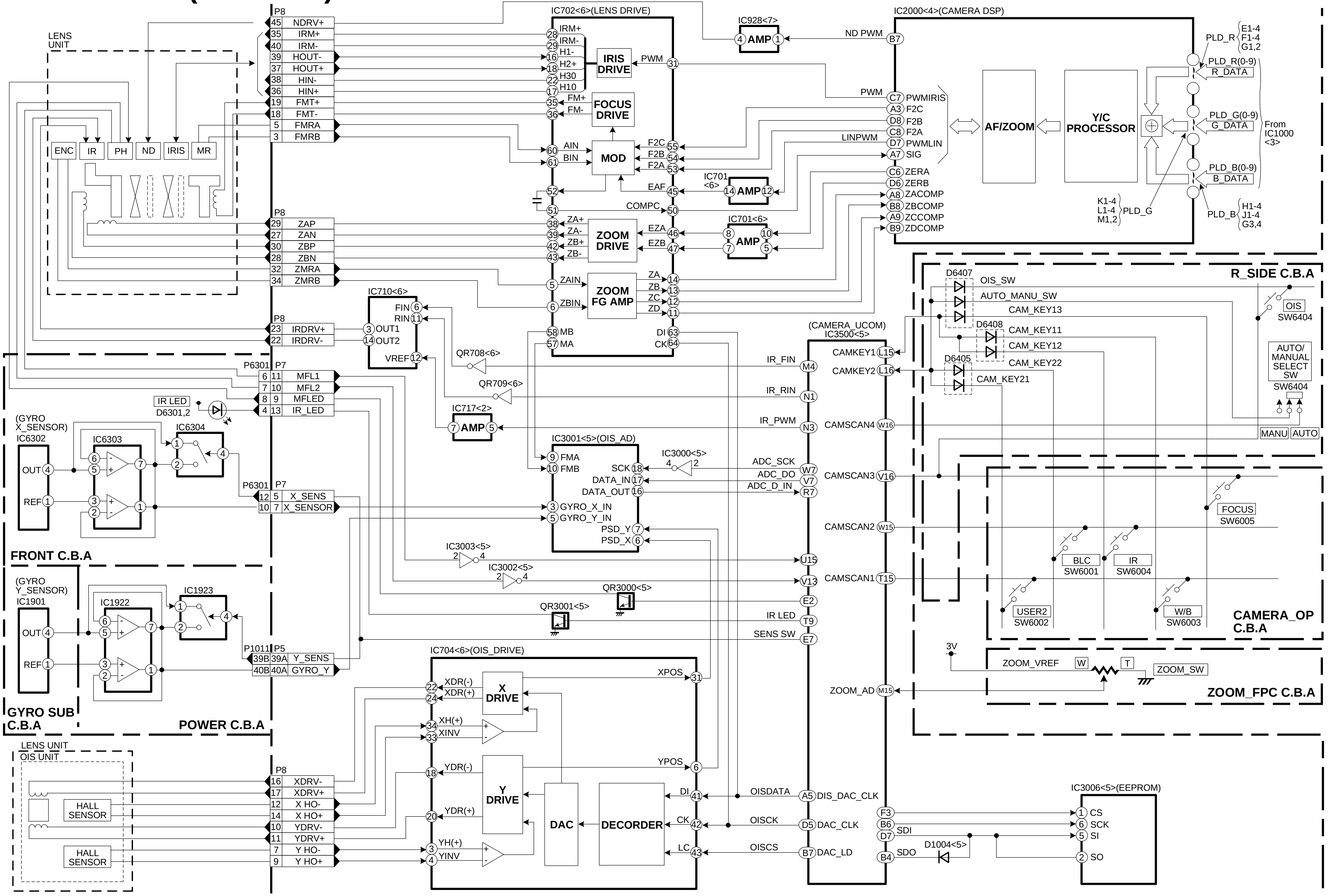

BATTERY
LENS UNIT
IR
ZOOM
ND
IRIS
OIS
FOCUS
CCD
FRONT C.B.A
GYRO_X SENSOR
IR LED
REMOTE SENSOR
ZOOM FPC C.B.A
ZOOM SW
T W
USER1 SW
GYRO SUB C.B.A
GYRO_Y SENSOR
POWER C.B.A
5V
3V
1.8V
2.5V
3.1V
1.5V
-7.5V
12V
EVF UNIT
0.44inch LCD
SIDE JACK FPC C.B.A
S-VHS IN/OUT
AV IN/OUT
EXT MIC IN
WB SENSOR
XLR ADAPTOR
XLR ADAPTOR(OPTION) AG-MYA30G
CAMERA C.B.A
TG & DRIVE
IC1015,16 H-CCD PULSE DRIVER
IC1023 V-CCD(B) PULSE DRIVER
IC1022 V-CCD(R,G) PULSE DRIVER
AFE
IC1-3 (CDS/PGA/AD)
RGB
IC1000 (PLD)
DSP
IC2000 (CAMERA DSP)
YC
FOCUS PWM
IRIS PWM
ZOOM DRIVE
IR DRIVE
ND PWM
OIS DATA
IC702 (MOTOR DRIVE)
IC710 (MOTOR DRIVE)
IC928 (AMP)
IC704 (OIS DRIVE)
LENS DRIVE
UCOM
IC3500 (CAMERA MICROPROCESSOR)
IC3006 (CAMERA EEPROM)
VIDEO C.B.A
EVF DRIVER
IC601 (CONTROLLER & SIGNAL PROCESSOR)
RGB
EX INPUT
IC3501
TBC
AD
IC3503 (SW)
Y
V
C
AUDIO
IC4002
MIC C.B.A
INT MIC
VIDEO 1
IC3001
DV FORMAT PROCESS
DIGITAL EFFECT PROCESS
DAC
YC
RGB
AUDIO PEOCESS
IC3002
ENCODE
Y
V
C
LINE_L & R OUT
HP_L & R OUT
SP_OUT 1 & 2 OUT
IC3004
AUD I/F
DAC
ADC
LINE
EXT
REAR JACK C.B.A
HP OUT
CAMERA REMOTE
DV IN/OUT
VIDEO 2 & HR_AMP
IC3202 (DV I/F)
IC3201
I/F
EQ
IC5001
REC AMP
HEAD AMP
S/S UNIT
CAMERA LED
VTR LED
POWER SW
CONTROL & DRIVE
IC2007 (RTC)
IC2001 (VTR MICROPROCESSOR)
IC2008 (VTR EEPROM)
IC2201 (CYL/CAP LOADING DRIVE)
MECHA
RP HEAD Lch
RP HEAD Rch
M
LOADING MOTOR
CYLINDER
CAPSTAN
CAMERA_OP C.B.A
USER2
USER3
SNS
WB
FOCUS
R_SIDE C.B.A
OIS
AUTO/ MANUAL
RESET
BATTERY
MENU
ZEBRA
M•CHK
CNTR
C-RST
FF
STOP
REW
REC
PLAY
STILL
LCD UNIT
IC901 (CONTROLLER & SIGNAL PROCESSOR)
3.5inch LCD
SP OUT
LCD_OPEN
LCD_OPEN C.B.A
CAS_OPEN
CAS_OPEN C.B.A
DEW

SENSOR/PROCESS(CAMERA) BLOCK DIAGRAM



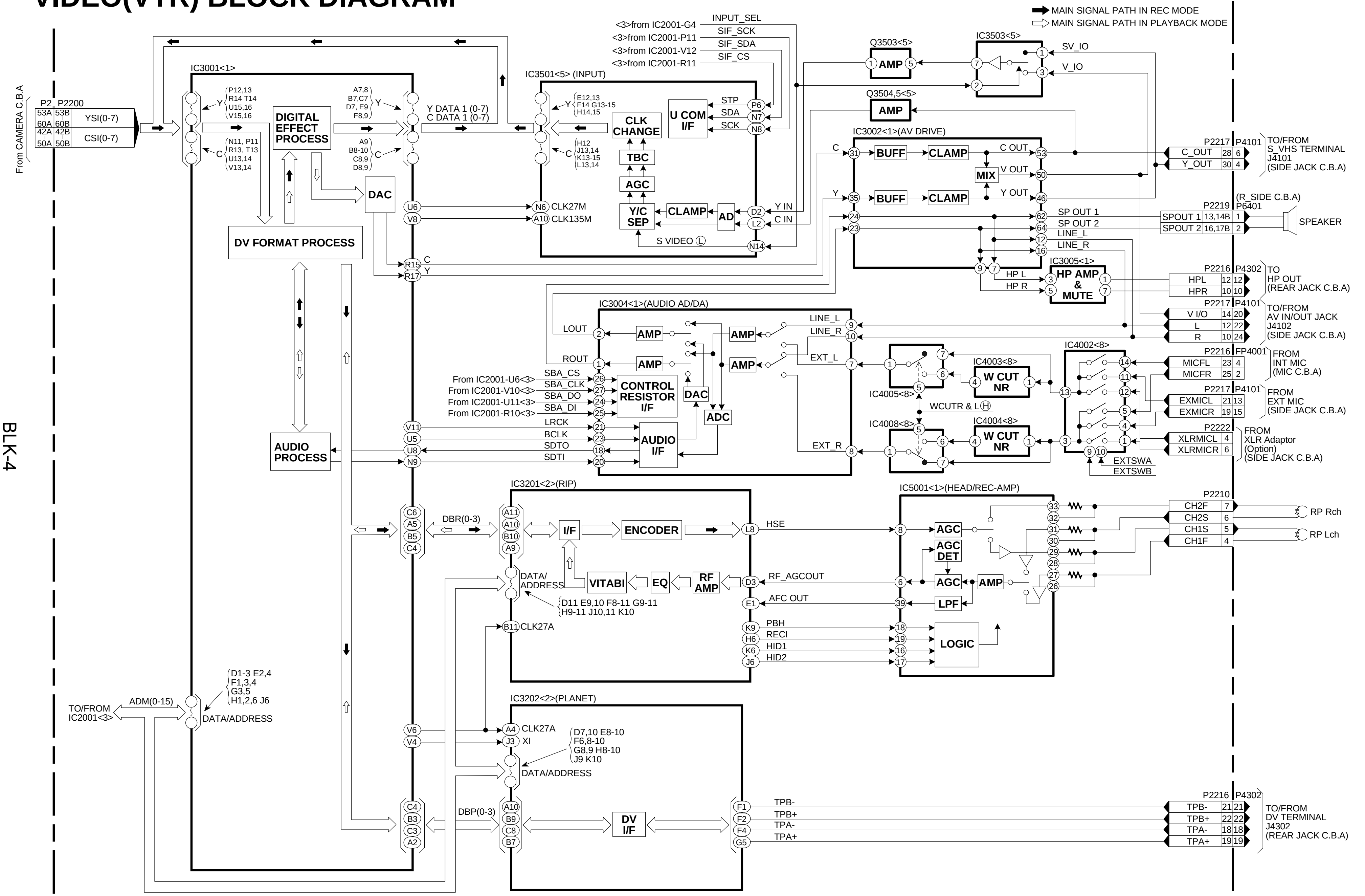
CCD FLEX.CARD
P1
2A 2A SIG_R
4A 4A SIG_G
19B 19B SIG_B
X1000<3>
CLK OSC
31.5MHz
IC1001<3>
IC1002<3>
CLK DRIVER
IC1006 - 8 <3>
SHP GEN
IC1004,5,25<3>
SHD GEN
IC1003<3>
CLK DRIVER
15.75MHz
IC1016<3>(H.DRIVER)
IC1013,14<3>
H.PULSE DECODER
H1
H2
8B 8B H1_R
10A 10A H1_G
13B 13B H1_B
9B 9B H2_R
11A 11A H2_G
14B 14B H2_B
6B 6B RG
IC1015<3>(H.DRIVER)
H2_R
H2_G
H2_B
IC1010,11,24<3>
RESET PULSE DECODER
R
HCLR
HGT
HGT_N
IC1000<3>(CCD DRIVE,PULSE GEN)(PLD)
LENS UNIT
LIGHT
3CCD METHOD
B CCD
R CCD
G CCD
IC1023<3>(V.DRIVER(B))
INPUT I/F
16A 16A V1_B
17A 17A V2_B
18A 18A V3_B
19A 19A V4_B
16B 16B CAM15V
11B 11B CAM-7V
15A 15A SUB_B
VH
PT
CH1
CH2
XV1_B
XV2_B
XV3_B
XV4_B
ISUB
3.1V
CAM-7V
CAM15V
IC1022<3>(V.DRIVER(R,G))
13A 13A SUB_R
7A 7A SUB_G
1B 1B V1_RG
2B 2B V2_RG
3B 3B V3_RG
4B 4B V4_RG
XV1_RG
XV2_RG
XV3_RG
XV4_RG
TG_SDATA
TG_SCLK
TG_CS
IC3500<5>(CAMERA UCOM)
C_V_DATA
V_C_DATA
CAM_SCK
CAM_RTN
RTN_FLD
ANA_LDR
ANA_LDG
ANA_LDB
ADDRESS DATA
A15-17, B14,15,17
C15-17,19, D16-19
E16-19, F16,19
G17
IC104<2>(CDS/PGA/AD)(R)
IC105<2>(CDS/PGA/AD)(G)
IC106<2>(CDS/PGA/AD)(B)
SHP
SHD
ADCLK
SLOAD
SDATA
SCLK
TIMING CONTROL
SERIAL I/F
SIG_R
SIG_G
SIG_B
CCDIN
CDS
PGA
A/D
P2 P2200
C_V_DATA 58B 58A
V_C_DATA 59B 59A
CAM_SCK 60B 60A
CAM_RTN 56B 56A
RTN_FLD 32B 32A
TO/FROM VTR C.B.A
IC2000<4>(CAMERA DSP)
M3, N1-6
P1-7, R3-5
T3-6
DSP UCOM I/F
BLOCK MEMORY
38,39
133,134
139-144
109-114
119-122
123-132
E1-4
F1-4
G1,2
K1-4
L1-4
M1,2
H1-4
J1-4
G3,4
PLD_R(0-9)
PLD_G(0-9)
PLD_B(0-9)
MATRIX
Y,C
MEMORY
DSC I/F
D16, E14-16
F14-16, G14
H14-16
J14-16
K14,15
INV
INH
YDATA(0-7)
CDATA(0-7)
INV 51A 51B
INH 42A 42B
YSI(0-7) 53A 60A 53B 60B
CSI(0-7) 43A 50A 43B 50B
TO VTR C.B.A
AFE_B(0-11)
53-62
67,68
AFE_G(0-11)
35,36 39-42
47-52
AFE_R(0-11)
69-72
73-79
82

LENS DRIVE(CAMERA) BLOCK DIAGRAM

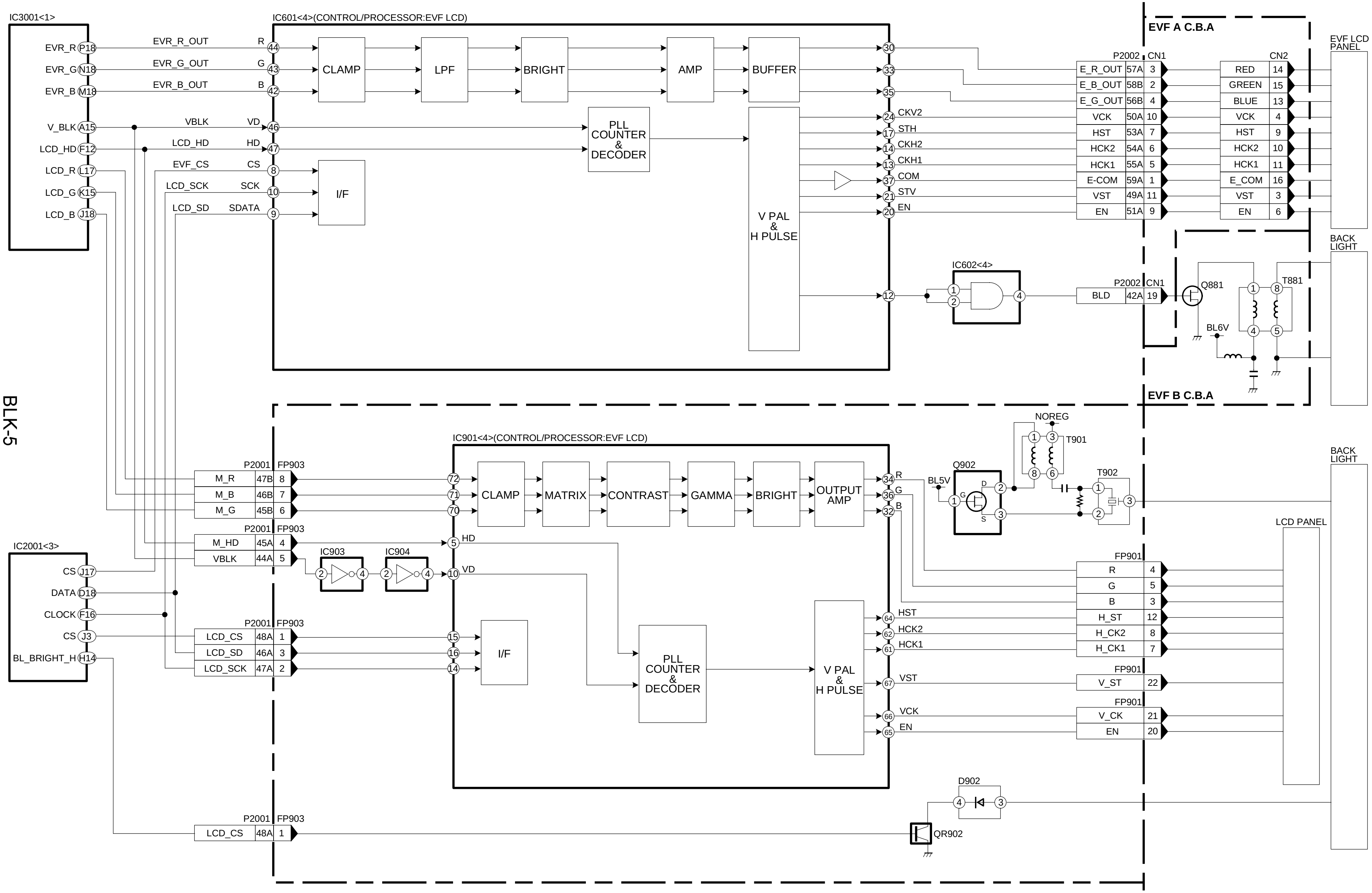

LENS UNIT
ENC
IR
PH
ND
IRIS
MR
P8
45 NDRV+
35 IRM+
40 IRM-
39 HOUT-
37 HOUT+
38 HIN-
36 HIN+
19 FMT+
18 FMT-
5 FMRA
3 FMRB
29 ZAP
27 ZAN
30 ZBP
28 ZBN
32 ZMRA
34 ZMRB
23 IRDRV+
22 IRDRV-
IC702<6>(LENS DRIVE)
IRM+
IRM-
H1-
H2+
H30
H10
IRIS DRIVE
PWM
FM+
FM-
FOCUS DRIVE
AIN
BIN
MOD
F2C
F2B
F2A
EAF
COMPC
ZA+
ZA-
ZB+
ZB-
ZOOM DRIVE
EZA
EZB
ZAIN
ZBIN
ZOOM FG AMP
ZA
ZB
ZC
ZD
MB
MA
DI
CK
IC928<7>
AMP
ND PWM
IC701<6>
IC2000<4>(CAMERA DSP)
PWMIRIS
F2C
F2B
F2A
PWMLIN
SIG
ZERA
ZERB
ZACOMP
ZBCOMP
ZCCOMP
ZDCOMP
LINPWM
AF/ZOOM
Y/C PROCESSOR
PLD_R
E1-4
F1-4
G1,2
PLD_R(0-9)
R_DATA
PLD_G(0-9)
G_DATA
PLD_B(0-9)
B_DATA
From IC1000 <3>
K1-4
L1-4
M1,2
PLD_G
PLD_B
H1-4
J1-4
G3,4
IC710<6>
FIN
RIN
OUT1
OUT2
VREF
QR708<6>
QR709<6>
IC717<2>
AMP
P6301
P7
MFL1
MFL2
MFLED
IR_LED
IR LED
D6301,2
(GYRO X_SENSOR)
IC6302
IC6303
IC6304
OUT
REF
X_SENS
X_SENSOR
FRONT C.B.A
(GYRO Y_SENSOR)
IC1901
IC1922
IC1923
P1011
P5
39B 39A Y_SENS
40B 40A GYRO_Y
GYRO SUB C.B.A
POWER C.B.A
IC3001<5>(OIS_AD)
FMA
FMB
SCK
DATA_IN
DATA_OUT
GYRO_X_IN
GYRO_Y_IN
PSD_Y
PSD_X
IC3000<5>
ADC_SCK
ADC_DO
ADC_D_IN
IC3003<5>
IC3002<5>
QR3000<5>
QR3001<5>
IR_FIN
IR_RIN
IR_PWM
IR LED
SENS SW
(CAMERA_UCOM)
IC3500<5>
CAMKEY1
CAMKEY2
CAMSCAN4
CAMSCAN3
CAMSCAN2
CAMSCAN1
ZOOM_AD
DIS_DAC_CLK
DAC_CLK
DAC_LD
D6407
OIS_SW
AUTO_MANU_SW
CAM_KEY13
D6408
CAM_KEY11
CAM_KEY12
D6405
CAM_KEY22
CAM_KEY21
R_SIDE C.B.A
OIS
SW6404
AUTO/ MANUAL SELECT SW
SW6404
MANU
AUTO
FOCUS
SW6005
BLC
SW6001
IR
SW6004
USER2
SW6002
W/B
SW6003
CAMERA_OP C.B.A
3V
ZOOM_VREF
W
T
ZOOM_SW
ZOOM_FPC C.B.A
IC704<6>(OIS_DRIVE)
XDR(-)
XDR(+)
X DRIVE
XH(+)
XINV
YDR(-)
YDR(+)
Y DRIVE
YH(+)
YINV
XPOS
YPOS
DAC
DECORDER
DI
CK
LC
OISDATA
OISCK
OISCS
LENS UNIT
OIS UNIT
HALL SENSOR
HALL SENSOR
16 XDRV-
17 XDRV+
12 X HO-
14 X HO+
10 YDRV-
11 YDRV+
7 Y HO-
9 Y HO+
IC3006<5>(EEPROM)
CS
SCK
SI
SO
SDI
SDO
D1004<5>

BLK-3

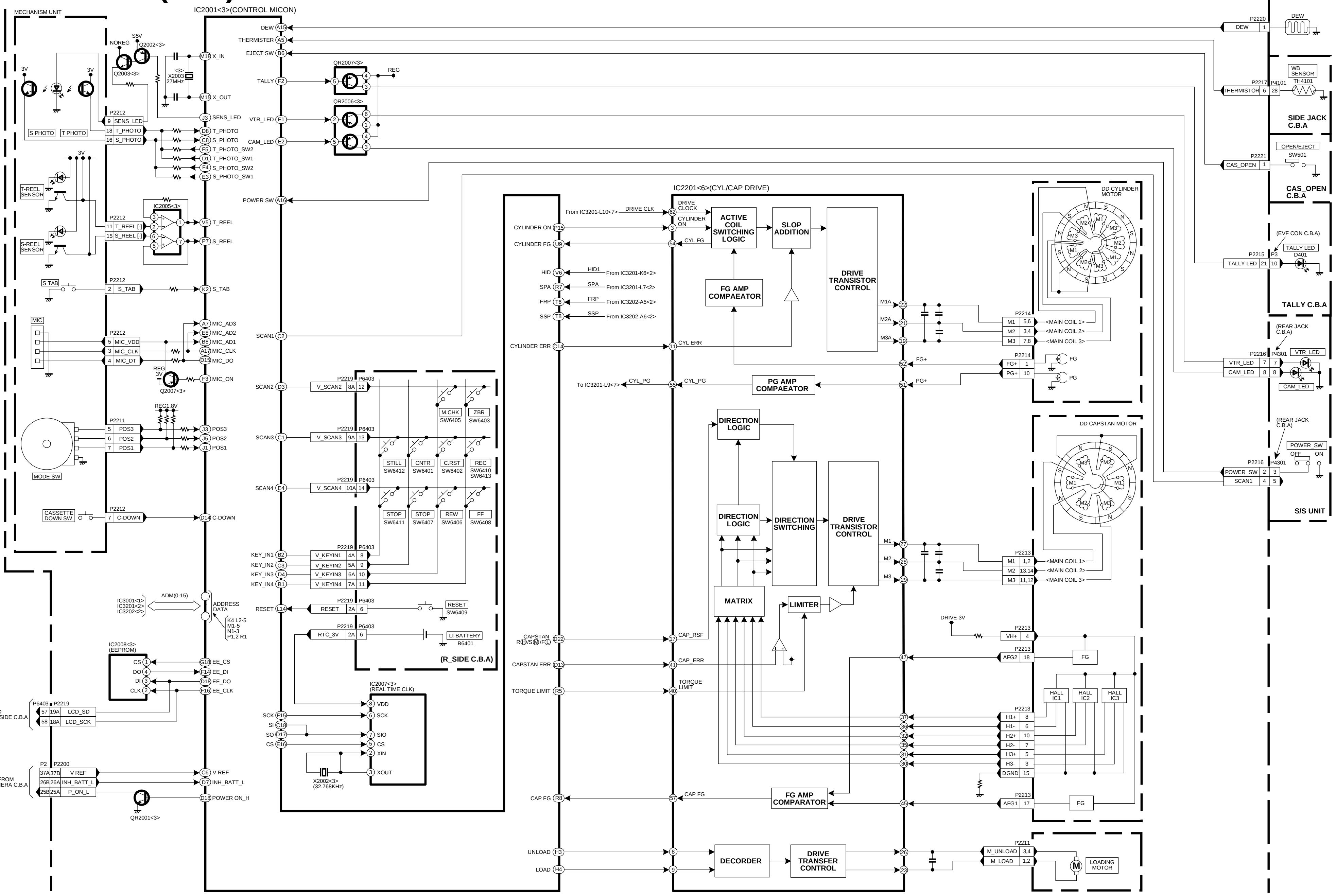
VIDEO(VTR) BLOCK DIAGRAM


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
From CAMERA C.B.A
P2 P2200
53A 53B
60A 60B
42A 42B
50A 50B
YSI(0-7)
CSI(0-7)
IC3001<1>
P12,13 R14 T14 U15,16 V15,16
N11, P11 R13, T13 U13,14 V13,14
DIGITAL EFFECT PROCESS
A7,8 B7,C7 D7, E9 F8,9
A9 B8-10 C8,9 D8,9
DAC
DV FORMAT PROCESS
AUDIO PROCESS
Y DATA 1 (0-7)
C DATA 1 (0-7)
U6
V8
R15 C
R17 Y
V11
U5
U8
N9
C6
A5
B5
C4
DBR(0-3)
D1-3 E2,4 F1,3,4 G3,5 H1,2,6 J6
TO/FROM IC2001<3>
ADM(0-15)
DATA/ADDRESS
V6
V4
C4
B3
C3
A2
DBP(0-3)
IC3501<5> (INPUT)
<3>from IC2001-G4 INPUT_SEL
<3>from IC2001-P11 SIF_SCK
<3>from IC2001-V12 SIF_SDA
<3>from IC2001-R11 SIF_CS
E12,13 F14 G13-15 H14,15
H12 J13,14 K13-15 L13,14
CLK CHANGE
U COM I/F
STP P6
SDA N7
SCK N8
TBC
AGC
Y/C SEP
CLAMP
AD
D2 Y IN
L2 C IN
N14
S VIDEO Ⓛ
N6 CLK27M
A10 CLK135M
Q3503<5> AMP
IC3503<5>
SV_IO
V_IO
Q3504,5<5> AMP
IC3002<1>(AV DRIVE)
BUFF
CLAMP
MIX
C OUT
V OUT
Y OUT
31 C
35 Y
53
50
46
62 SP OUT 1
64 SP OUT 2
12 LINE_L
16 LINE_R
24
23
9
7
HP L
HP R
IC3005<1> HP AMP & MUTE
P2217 P4101
C_OUT 28 6
Y_OUT 30 4
TO/FROM S_VHS TERMINAL J4101 (SIDE JACK C.B.A)
P2219 P6401 (R_SIDE C.B.A)
SPOUT 1 13,14B 1
SPOUT 2 16,17B 2
SPEAKER
P2216 P4302
HPL 12 12
HPR 10 10
TO HP OUT (REAR JACK C.B.A)
P2217 P4101
V I/O 14 20
L 12 22
R 10 24
TO/FROM AV IN/OUT JACK J4102 (SIDE JACK C.B.A)
IC3004<1>(AUDIO AD/DA)
LOUT
ROUT
AMP
LINE_L
LINE_R
EXT_L
EXT_R
From IC2001-U6<3> SBA_CS 26
From IC2001-V10<3> SBA_CLK 27
From IC2001-U11<3> SBA_DO 24
From IC2001-R10<3> SBA_DI 25
CONTROL RESISTOR I/F
DAC
ADC
LRCK 21
BCLK 23
SDTO 18
SDTI 20
AUDIO I/F
IC4005<8>
IC4003<8>
W CUT NR
WCUTR & L Ⓗ
IC4008<8>
IC4004<8>
IC4002<8>
EXTSWA
EXTSWB
P2216 FP4001
MICFL 23 4
MICFR 25 2
FROM INT MIC (MIC C.B.A)
P2217 P4101
EXMICL 21 13
EXMICR 19 15
FROM EXT MIC (SIDE JACK C.B.A)
P2222
XLRMICL 4
XLRMICR 6
FROM XLR Adaptor (Option) (SIDE JACK C.B.A)
IC3201<2>(RIP)
A11
A10
B10
A9
I/F
ENCODER
L8 HSE
VITABI
EQ
RF AMP
D3 RF_AGCOUT
E1 AFC OUT
DATA/ ADDRESS
D11 E9,10 F8-11 G9-11 H9-11 J10,11 K10
B11 CLK27A
K9 PBH
H6 RECI
K6 HID1
J6 HID2
IC5001<1>(HEAD/REC-AMP)
AGC
AGC DET
AMP
LPF
LOGIC
P2210
CH2F 7
CH2S 6
CH1S 5
CH1F 4
RP Rch
RP Lch
IC3202<2>(PLANET)
A4 CLK27A
J3 XI
D7,10 E8-10 F6,8-10 G8,9 H8-10 J9 K10
DATA/ADDRESS
A10
B9
C8
B7
DV I/F
F1 TPB-
F2 TPB+
F4 TPA-
G5 TPA+
P2216 P4302
TPB- 21 21
TPB+ 22 22
TPA- 18 18
TPA+ 19 19
TO/FROM DV TERMINAL J4302 (REAR JACK C.B.A)

MONITOR(VTR/LCD/EVF) BLOCK DIAGRAM

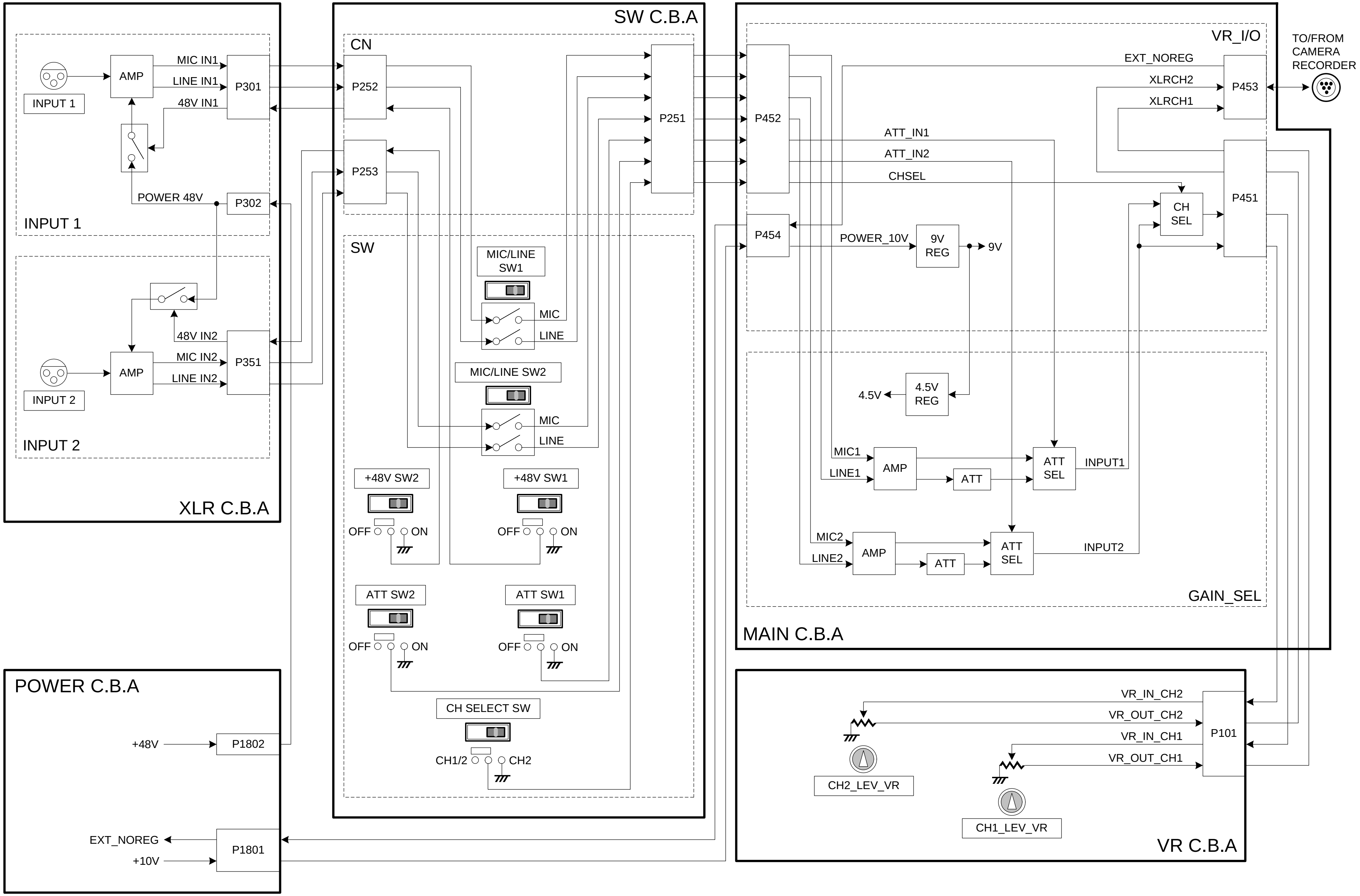

IC3001<1>
EVR_R P18
EVR_G N18
EVR_B M18
V_BLK A15
LCD_HD F12
LCD_R L17
LCD_G K15
LCD_B J18
EVR_R_OUT
EVR_G_OUT
EVR_B_OUT
VBLK
LCD_HD
EVF_CS
LCD_SCK
LCD_SD
IC601<4>(CONTROL/PROCESSOR:EVF LCD)
R 44
G 43
B 42
VD 46
HD 47
CS 8
SCK 10
SDATA 9
CLAMP
LPF
BRIGHT
AMP
BUFFER
PLL COUNTER & DECODER
I/F
V PAL & H PULSE
30
33
35
24 CKV2
17 STH
14 CKH2
13 CKH1
37 COM
21 STV
20 EN
12
IC602<4>
EVF A C.B.A
P2002
CN1
CN2
E_R_OUT 57A 3
E_B_OUT 58B 2
E_G_OUT 56B 4
VCK 50A 10
HST 53A 7
HCK2 54A 6
HCK1 55A 5
E-COM 59A 1
VST 49A 11
EN 51A 9
RED 14
GREEN 15
BLUE 13
VCK 4
HST 9
HCK2 10
HCK1 11
E_COM 16
VST 3
EN 6
EVF LCD PANEL
BACK LIGHT
BLD 42A 19
Q881
T881
BL6V
EVF B C.B.A
IC901<4>(CONTROL/PROCESSOR:EVF LCD)
P2001
FP903
M_R 47B 8
M_B 46B 7
M_G 45B 6
M_HD 45A 4
VBLK 44A 5
72
71
70
5 HD
10 VD
CLAMP
MATRIX
CONTRAST
GAMMA
BRIGHT
OUTPUT AMP
34 R
36 G
32 B
IC903
IC904
IC2001<3>
CS J17
DATA D18
CLOCK F16
CS J3
BL_BRIGHT_H H14
LCD_CS 48A 1
LCD_SD 46A 3
LCD_SCK 47A 2
15
16
14
I/F
PLL COUNTER & DECODER
V PAL & H PULSE
64 HST
62 HCK2
61 HCK1
67 VST
66 VCK
65 EN
NOREG
T901
Q902
BL5V
T902
D
G
S
BACK LIGHT
LCD PANEL
FP901
R 4
G 5
B 3
H_ST 12
H_CK2 8
H_CK1 7
V_ST 22
V_CK 21
EN 20
D902
QR902
LCD_CS 48A 1

CONTROL(VTR) BLOCK DIAGRAM



MECHANISM UNIT
IC2001<3>(CONTROL MICON)
IC2201<6>(CYL/CAP DRIVE)
DEW
THERMISTER
EJECT SW
TALLY
VTR_LED
CAM_LED
POWER SW
SCAN1
SCAN2
SCAN3
SCAN4
KEY_IN1
KEY_IN2
KEY_IN3
KEY_IN4
RESET
X_IN
X_OUT
SENS_LED
T_PHOTO
S_PHOTO
T_PHOTO_SW2
T_PHOTO_SW1
S_PHOTO_SW2
S_PHOTO_SW1
V5 T_REEL
P7 S_REEL
K2 S_TAB
MIC_AD3
MIC_AD2
MIC_AD1
MIC_CLK
MIC_DO
MIC_ON
POS3
POS2
POS1
C-DOWN
ADDRESS DATA
ADM(0-15)
IC3001<1>
IC3201<2>
IC3202<2>
K4 L2-5
M1-5
N1-3
P1,2 R1
IC2008<3> (EEPROM)
EE_CS
EE_DI
EE_DO
EE_CLK
TO R SIDE C.B.A
LCD_SD
LCD_SCK
TO/FROM CAMERA C.B.A
V REF
INH_BATT_L
P_ON_L
POWER ON_H
QR2001<3>
NOREG
S5V
Q2002<3>
Q2003<3>
X2003 27MHz
QR2007<3>
QR2006<3>
REG
3V
S PHOTO
T PHOTO
T-REEL SENSOR
S-REEL SENSOR
IC2005<3>
S TAB
MIC
MIC_VDD
MIC_DT
Q2007<3>
REG1.8V
MODE SW
CASSETTE DOWN SW
P2212
P2211
P2219
P6403
P2200
P2
V_SCAN2
V_SCAN3
V_SCAN4
V_KEYIN1
V_KEYIN2
V_KEYIN3
V_KEYIN4
RTC_3V
M.CHK SW6405
ZBR SW6403
STILL SW6412
CNTR SW6401
C.RST SW6402
REC SW6410 SW6413
STOP SW6411
STOP SW6407
REW SW6406
FF SW6408
RESET SW6409
LI-BATTERY B6401
(R_SIDE C.B.A)
IC2007<3> (REAL TIME CLK)
VDD
SCK
SIO
CS
XIN
XOUT
SI
SO
X2002<3> (32.768KHz)
CYLINDER ON
CYLINDER FG
HID
SPA
FRP
SSP
CYLINDER ERR
To IC3201-L9<7>
CYL_PG
From IC3201-L10<7>
DRIVE CLK
DRIVE CLOCK
From IC3201-K6<2>
From IC3201-L7<2>
From IC3202-A5<2>
From IC3202-A6<2>
ACTIVE COIL SWITCHING LOGIC
SLOP ADDITION
DRIVE TRANSISTOR CONTROL
FG AMP COMPAEATOR
PG AMP COMPAEATOR
CYL FG
CYL ERR
M1A
M2A
M3A
FG+
PG+
DIRECTION LOGIC
DIRECTION SWITCHING
MATRIX
LIMITER
CAPSTAN R/S/M/F/L
CAPSTAN ERR
TORQUE LIMIT
CAP FG
CAP_RSF
CAP_ERR
FG AMP COMPARATOR
UNLOAD
LOAD
DECORDER
DRIVE TRANSFER CONTROL
M1
M2
M3
DD CYLINDER MOTOR
DD CAPSTAN MOTOR
P2214
P2213
<MAIN COIL 1>
<MAIN COIL 2>
<MAIN COIL 3>
FG
PG
DRIVE 3V
VH+
AFG2
AFG1
HALL IC1
HALL IC2
HALL IC3
H1+
H1-
H2+
H2-
H3+
H3-
DGND
P2211
M_UNLOAD
M_LOAD
LOADING MOTOR
P2220
DEW
WB SENSOR
P2217
P4101
TH4101
THERMISTOR
SIDE JACK C.B.A
OPEN/EJECT
SW501
P2221
CAS_OPEN
CAS_OPEN C.B.A
(EVF CON C.B.A)
TALLY LED
P2215
P3
D401
TALLY C.B.A
(REAR JACK C.B.A)
P2216
P4301
VTR_LED
CAM_LED
POWER_SW
OFF
ON
SCAN1
S/S UNIT

OVERALL BLOCK DIAGRAM (AG-MYA30G)

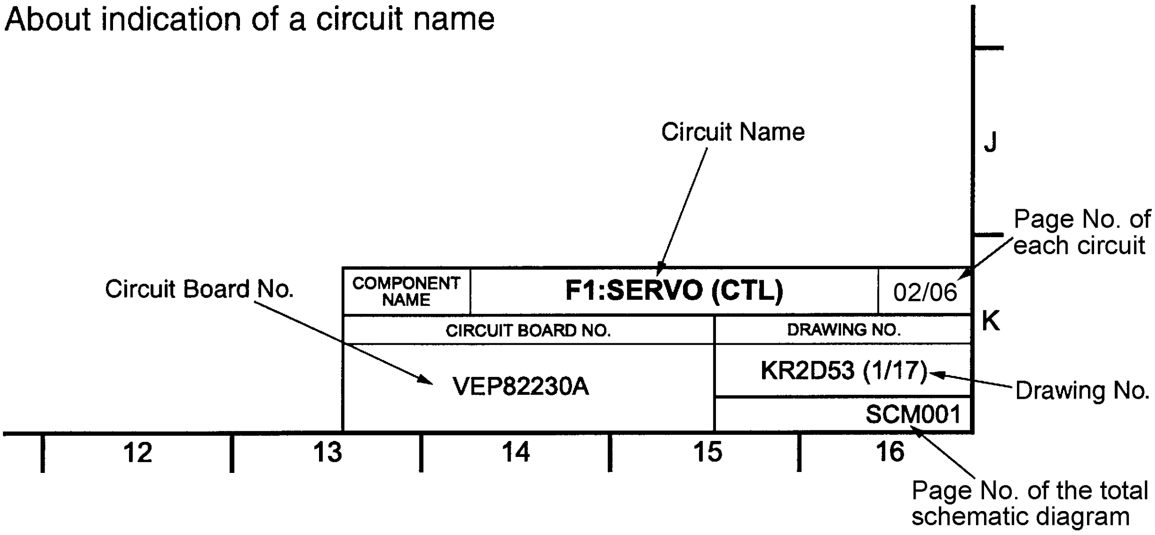


XLR C.B.A
INPUT 1
INPUT 1
AMP
MIC IN1
LINE IN1
48V IN1
P301
POWER 48V
P302
INPUT 2
INPUT 2
AMP
48V IN2
MIC IN2
LINE IN2
P351
SW C.B.A
CN
P252
P253
P251
SW
MIC/LINE SW1
MIC
LINE
MIC/LINE SW2
MIC
LINE
+48V SW2
OFF
ON
+48V SW1
OFF
ON
ATT SW2
OFF
ON
ATT SW1
OFF
ON
CH SELECT SW
CH1/2
CH2
MAIN C.B.A
VR_I/O
P452
P453
P451
P454
EXT_NOREG
XLRCH2
XLRCH1
ATT_IN1
ATT_IN2
CHSEL
CH SEL
POWER_10V
9V REG
9V
4.5V REG
4.5V
GAIN_SEL
MIC1
LINE1
AMP
ATT
ATT SEL
INPUT1
MIC2
LINE2
AMP
ATT
ATT SEL
INPUT2
TO/FROM CAMERA RECORDER
POWER C.B.A
+48V
P1802
EXT_NOREG
+10V
P1801
VR C.B.A
P101
VR_IN_CH2
VR_OUT_CH2
VR_IN_CH1
VR_OUT_CH1
CH2_LEV_VR
CH1_LEV_VR

SECTION 6

SCHEMATIC DIAGRAMS

About indication of a circuit name



Circuit Name
Circuit Board No.
COMPONENT NAME
F1:SERVO (CTL)
02/06
Page No. of each circuit
J
K
CIRCUIT BOARD NO.
DRAWING NO.
VEP82230A
KR2D53 (1/17)
Drawing No.
SCM001
12
13
14
15
16
Page No. of the total schematic diagram

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION8

CAUTION

THE ☐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

<<AG-DVC30P/E DVC32EN DVC33MC>>

INTERCONNECTION

INTERCONNECTION (1/1) SCM001

VTR

VTR (VIDEO_1) (1/9) SCM002
VTR (VIDEO_2) (2/9) SCM003
VTR (CONTROL) (3/9) SCM004
VTR (EVR_DRIVER) (4/9) SCM005
VTR (EX_INPUT) (5/9) SCM006
VTR (DRIVE) (6/9) SCM007
VTR (HR_AMP) (7/9) SCM008
VTR (AUDIO) (8/9) SCM009
VTR (CN) (9/9) SCM010

CAMERA

CAMERA (SUB_CN) (1/7) SCM011
CAMERA (AFE) (2/7) SCM012
CAMERA (TG & DRIVE) (3/7) SCM013
CAMERA (DSP) (4/7) SCM014
CAMERA (UCOM) (5/7) SCM015
CAMERA (LENS_DRIVE) (6/7) SCM016
CAMERA (ND_DRIVE) (7/7) SCM017

POWER

POWER (1/2) SCM018
POWER (2/2) SCM019

R SIDE

R_SIDE (1/2) SCM020
R_SIDE (2/2) SCM021

CAMERA OP

CAMERA OP (1/1) SCM022

MENU FPC

MENU FPC (1/1) SCM023

FRONT

FRONT (1/1) SCM024

MF FPC

MF FPC (1/1) SCM025

SIDE JACK FPC

SIDE JACK FPC (1/1) SCM026

REAR JACK

REAR JACK (1/1) SCM027

BATTERY

BATTERY (1/1) SCM028

ZOOM FPC

ZOOM FPC (1/1) SCM029

ZOOM CON

ZOOM CON (1/1) SCM030

EVF CON

EVF CON (1/1) SCM031

MIC

MIC (1/1) SCM032

MONITOR

MONITOR (1/1) SCM033

EVF A

EVF A (1/1) SCM034

EVF B

EVF B (1/1) SCM034

LCD OPEN

LCD OPEN (1/1) SCM034

CAS OPEN

CAS OPEN (1/1) SCM034

TALLY

TALLY (1/1) SCM035

SUB REC

SUB REC (1/1) SCM035

DC IN

DC IN (1/1) SCM035

<<AG-MYA30G;OPTION>>

XLR

XLR (INPUT 1) (1/2) SCM036
XLR (INPUT 2) (2/2) SCM037

SW

SW (SW) (1/2) SCM038
SW (CN) (2/2) SCM039

MAIN

MAIN (GAIN SEL) (1/2) SCM040
MAIN (VR I/O) (2/2) SCM041

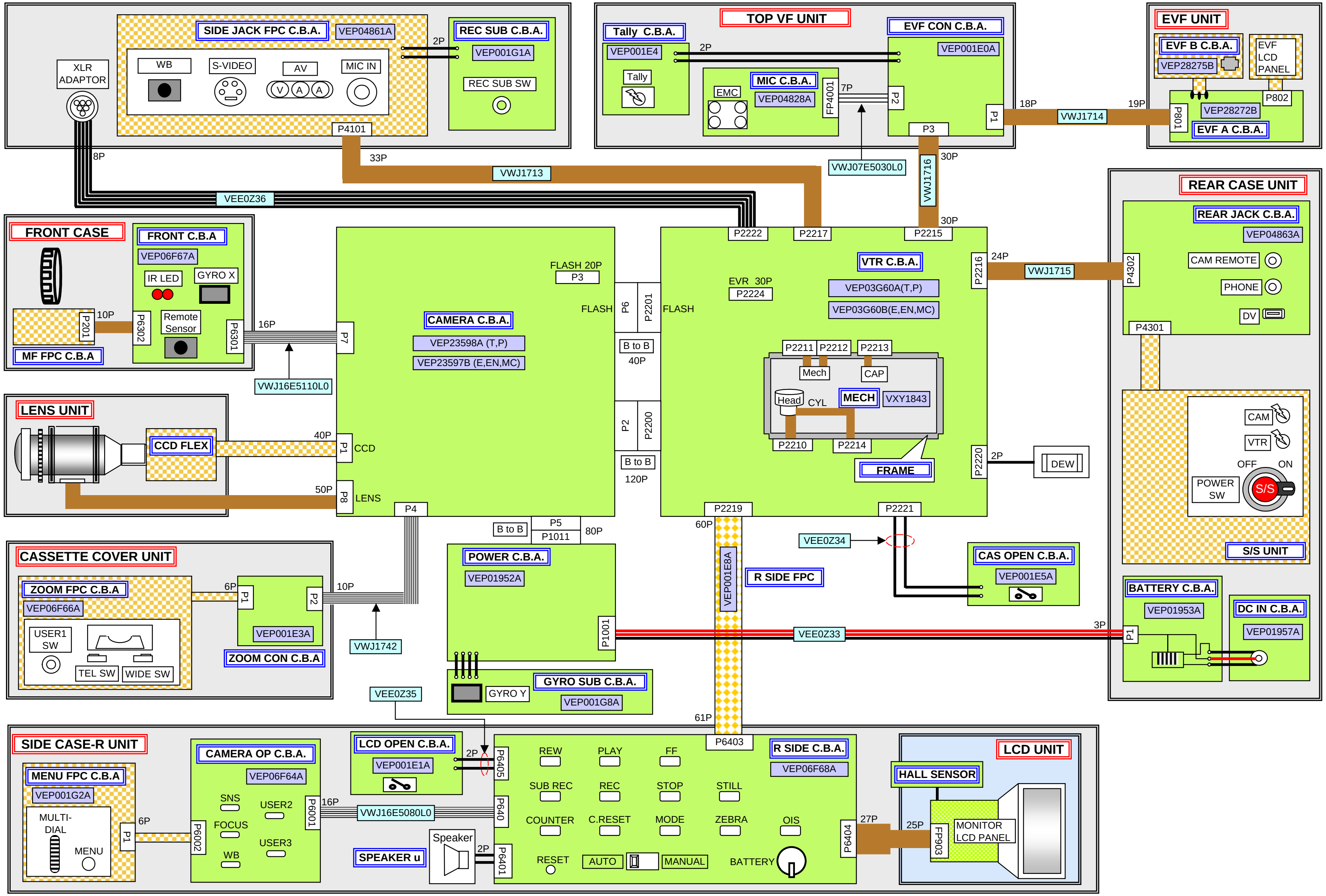
POWER

POWER (1/1) SCM042

VR

VR (1/1) SCM043

INTERCONNECTION


SIDE JACK FPC C.B.A.
VEP04861A
XLR ADAPTOR
WB
S-VIDEO
AV
MIC IN
V A A
P4101
2P
REC SUB C.B.A.
VEP001G1A
REC SUB SW
8P
33P
VWJ1713
VEE0Z36
TOP VF UNIT
Tally C.B.A.
VEP001E4
Tally
2P
MIC C.B.A.
VEP04828A
EMC
FP4001
7P
EVF CON C.B.A.
VEP001E0A
P2
P1
P3
18P
VWJ1714
19P
VWJ07E5030L0
VWJ1716
30P
30P
EVF UNIT
EVF B C.B.A.
VEP28275B
EVF LCD PANEL
P802
P801
VEP28272B
EVF A C.B.A.
REAR CASE UNIT
REAR JACK C.B.A.
VEP04863A
CAM REMOTE
PHONE
DV
P4302
P4301
24P
VWJ1715
CAM
VTR
OFF
ON
POWER SW
S/S
S/S UNIT
FRONT CASE
FRONT C.B.A
VEP06F67A
IR LED
GYRO X
Remote Sensor
P201
10P
P6302
P6301
16P
MF FPC C.B.A
VWJ16E5110L0
P7
CAMERA C.B.A.
VEP23598A (T,P)
VEP23597B (E,EN,MC)
FLASH 20P
P3
FLASH
P6
P2201
B to B
40P
P2
P2200
B to B
120P
P1
CCD
P8
LENS
P4
B to B
P5
P1011
80P
LENS UNIT
CCD FLEX
40P
50P
P2222
P2217
P2215
VTR C.B.A.
EVR 30P
P2224
FLASH
VEP03G60A(T,P)
VEP03G60B(E,EN,MC)
P2216
P2211
P2212
P2213
Mech
CAP
Head
CYL
MECH
VXY1843
P2210
P2214
FRAME
P2220
2P
DEW
P2219
P2221
60P
VEE0Z34
CAS OPEN C.B.A.
VEP001E5A
VEP001E8A
R SIDE FPC
CASSETTE COVER UNIT
ZOOM FPC C.B.A
VEP06F66A
USER1 SW
TEL SW
WIDE SW
6P
P1
P2
10P
VEP001E3A
ZOOM CON C.B.A
VWJ1742
POWER C.B.A.
VEP01952A
P1001
VEE0Z33
3P
BATTERY C.B.A.
VEP01953A
P1
DC IN C.B.A.
VEP01957A
GYRO SUB C.B.A.
GYRO Y
VEP001G8A
VEE0Z35
61P
SIDE CASE-R UNIT
MENU FPC C.B.A
VEP001G2A
MULTI-DIAL
MENU
6P
P1
P6002
CAMERA OP C.B.A.
VEP06F64A
SNS
FOCUS
WB
USER2
USER3
P6001
16P
VWJ16E5080L0
LCD OPEN C.B.A.
VEP001E1A
2P
P6405
P640
SPEAKER u
Speaker
2P
P6401
P6403
REW
PLAY
FF
SUB REC
REC
STOP
STILL
COUNTER
C.RESET
MODE
ZEBRA
OIS
RESET
AUTO
MANUAL
BATTERY
R SIDE C.B.A.
VEP06F68A
P6404
27P
LCD UNIT
HALL SENSOR
25P
FP903
MONITOR LCD PANEL
A
B
C
D
E
F
G
H
I
J
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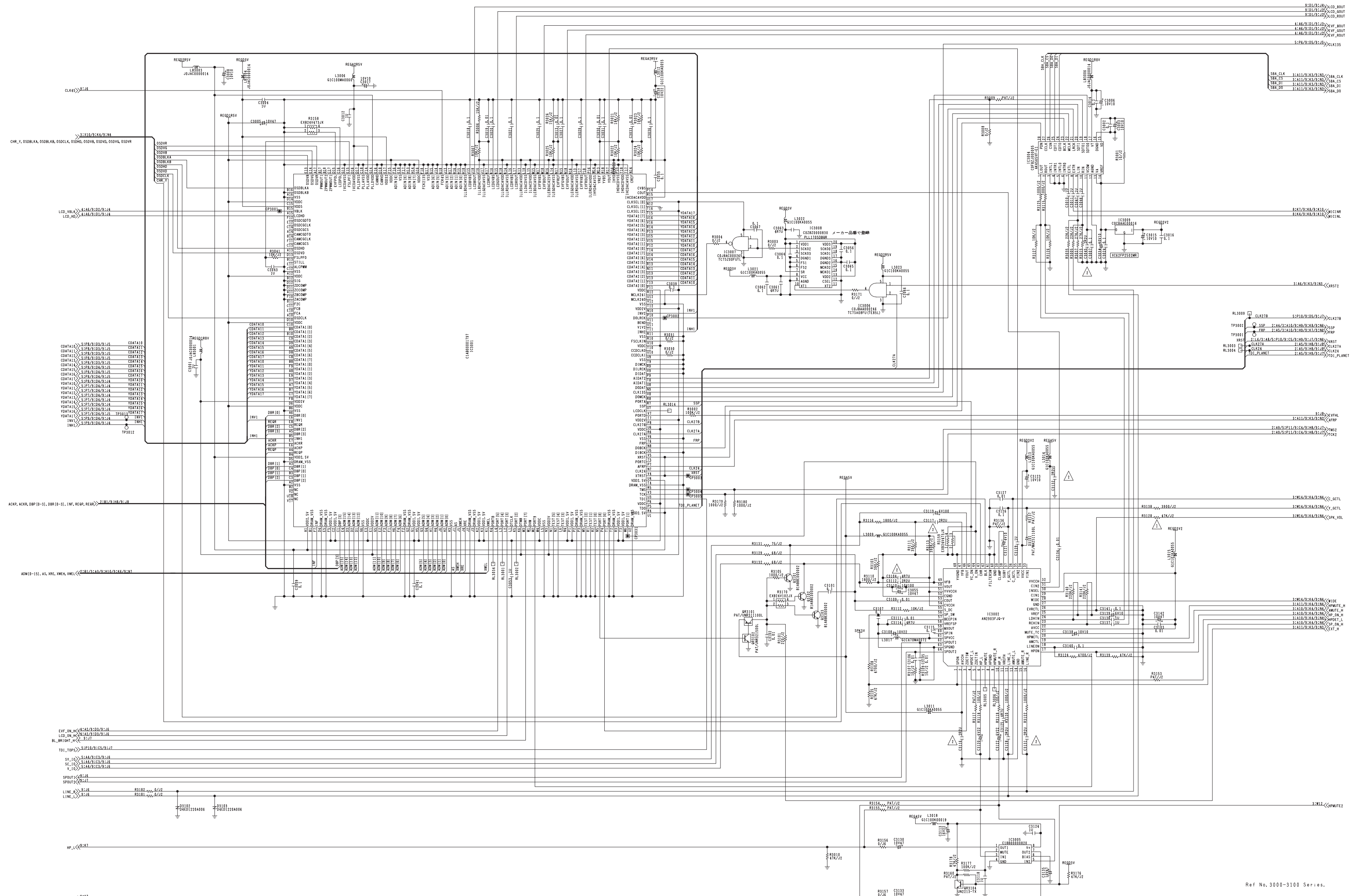
COMPONENT NAME	INTERCONNECTION	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
	(1/1)	
	SCM001	


Ref No.3000-3100 Series.
A
B
C
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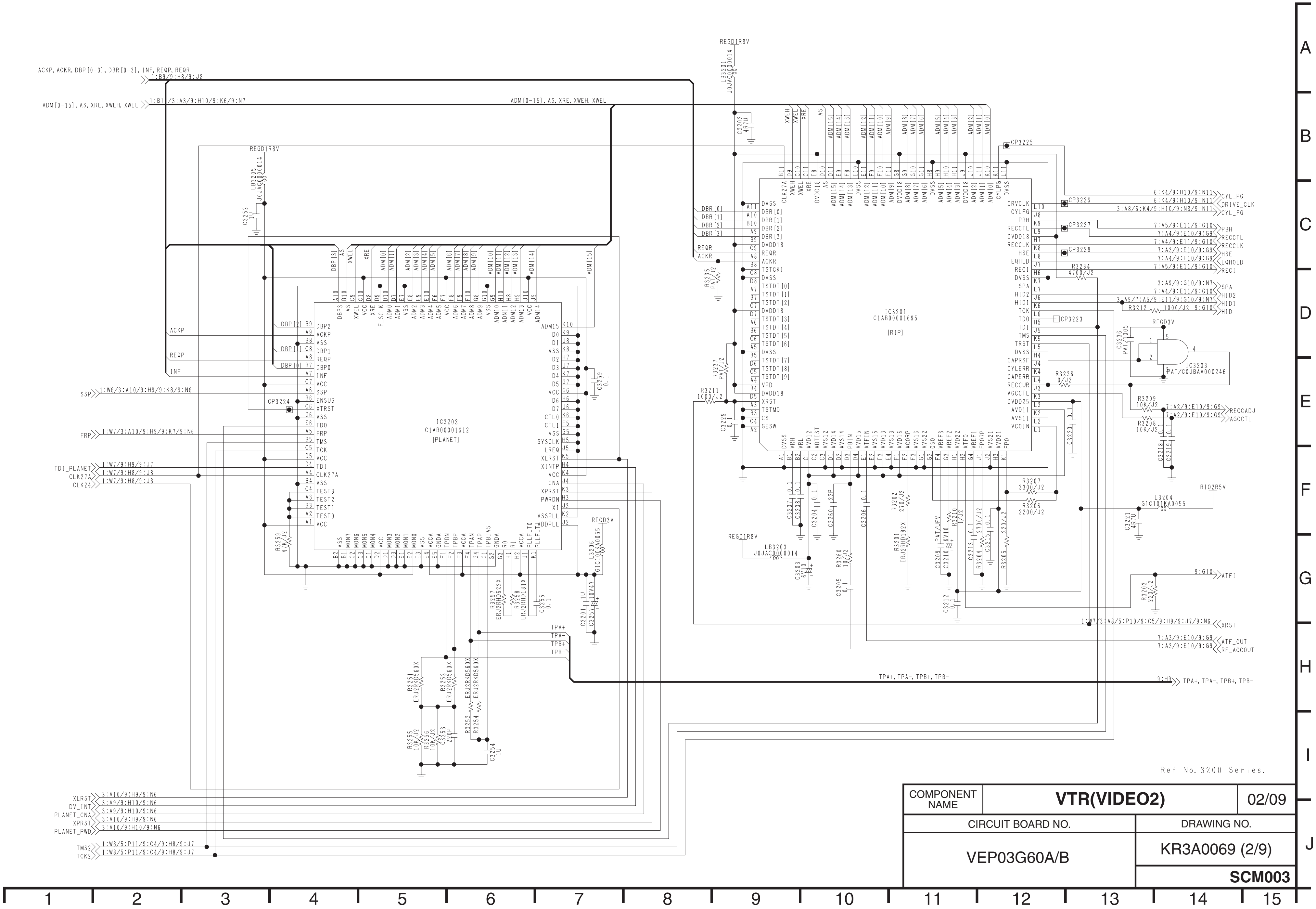
COMPONENT NAME	**VTR(VIDEO1)**	01/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (1/9)	
	SCM002	


ACKP, ACKR, DBP[0-3], DBR[0-3], INF, REQP, REQR
ADM[0-15], AS, XRE, XWEH, XWEL
REGD1R8V
IC3202
C1AB00001612
[PLANET]
IC3201
C1AB00001695
[RIP]
IC3203
PAT/C0JBAA000246
REGD3V
RIO2R5V
SSP
FRP
TDI_PLANET
CLK27A
CLK24
XLRST
DV_INT
PLANET_CNA
XPRST
PLANET_PWD
TMS2
TCK2
CYL_PG
DRIVE_CLK
CYL_FG
PBH
RECCTL
RECCLK
HSE
EQHOLD
RECI
SPA
HID2
HID1
HID
RECCADJ
AGCCTL
ATFI
XRST
ATF_OUT
RF_AGCOUT
TPA+, TPA-, TPB+, TPB-
TPA+
TPA-
TPB+
TPB-
A
B
C
D
E
F
G
H
I
J
1
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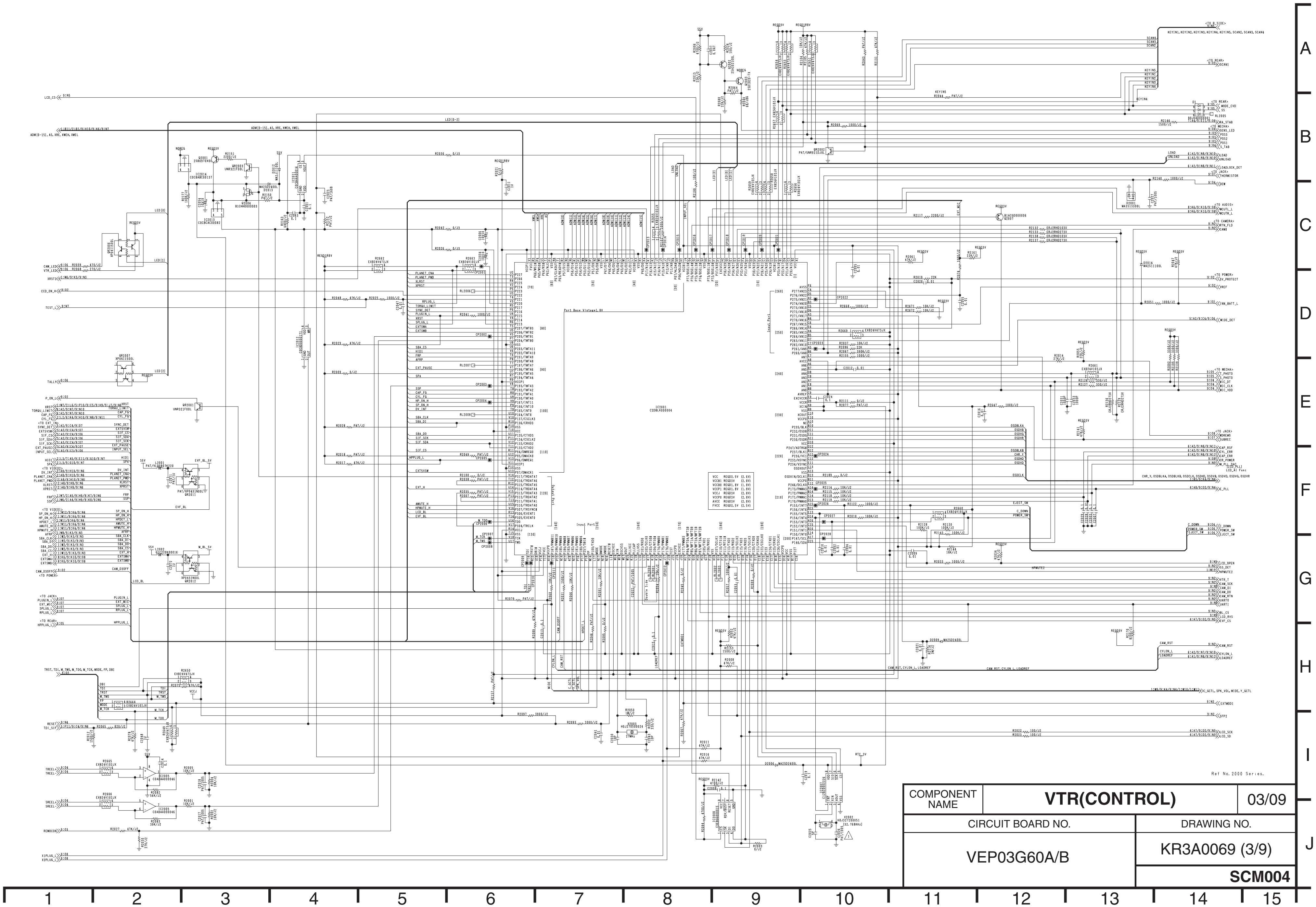
Ref No. 3200 Series.

COMPONENT NAME	VTR(VIDEO2)	02/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (2/9)	
	SCM003	


IC2001
C2DBLK000004
VCC REGD2.5V (2.6V)
VCCB1 REGD3V (2.8V)
VCCB0 REGD1.8V (1.8V)
VCCP1 REGD1.8V (1.8V)
VCCJ REGD3V (2.8V)
VCCP0 REGD3V (2.8V)
AVCC REGD3V (2.8V)
FVCC REGD2.5V (2.5V)
Input Port
Output Port
Port Base Voltage=1.8V
A
B
C
D
E
F
G
H
I
J
1
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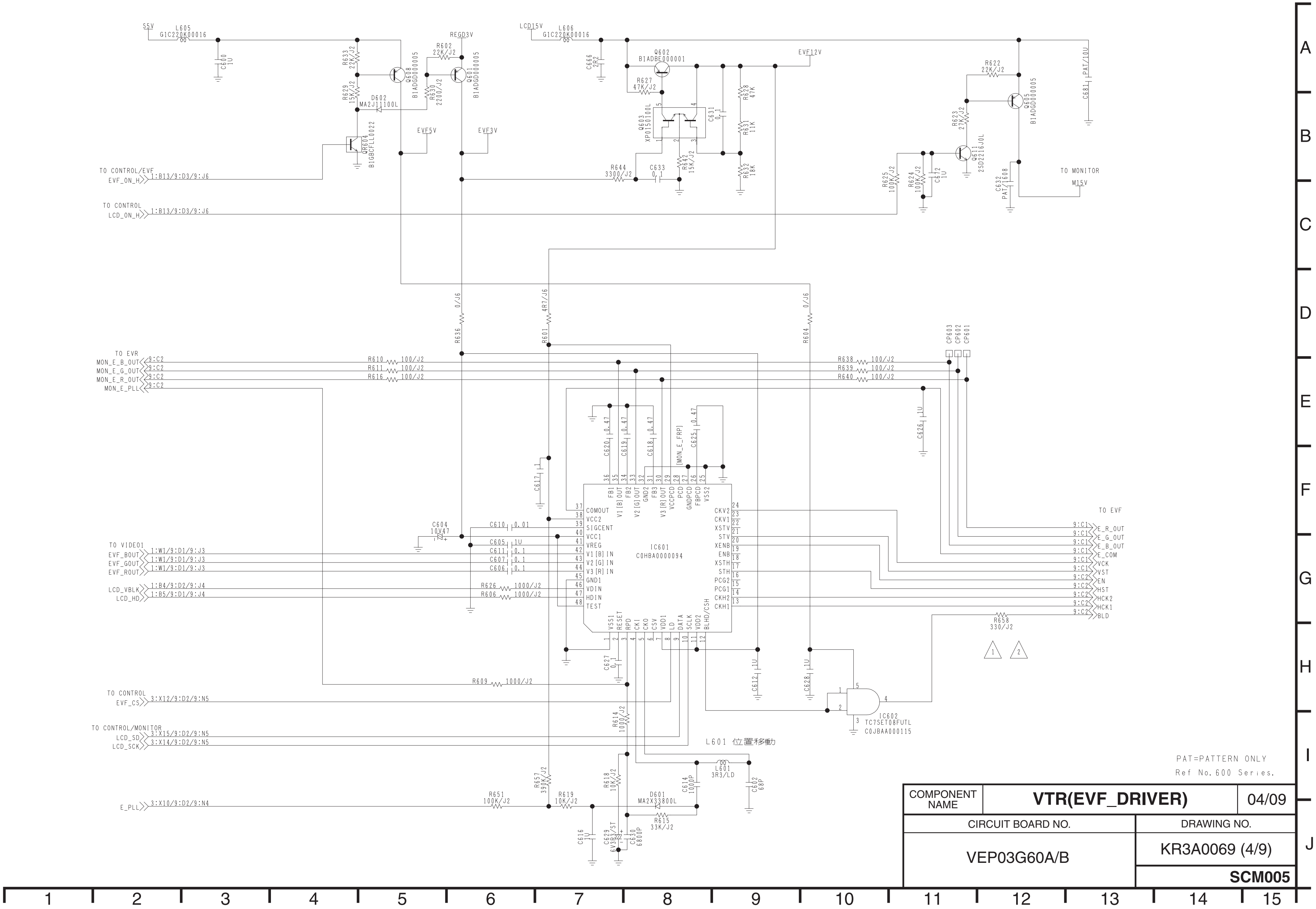
Ref No. 2000 Series.

COMPONENT NAME	VTR(CONTROL)	03/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (3/9)	
	SCM004	


S5V
L605
G1C220K00016
C600
1U
R633
22K/J2
R629
15K/J2
D602
MA2J11100L
Q608
B1ADGD000005
R602
22K/J2
REGD3V
R630
2200/J2
Q601
B1ADGD000005
QR604
B1GBCFLL0022
EVF5V
EVF3V
TO CONTROL/EVF
EVF_ON_H
1:B13/9:D3/9:J6
TO CONTROL
LCD_ON_H
1:B13/9:D3/9:J6
LCD15V
L606
G1C220K00016
C666
2R2
Q602
B1ADBE000001
R627
47K/J2
Q603
XP0150100L
C631
0.1
R628
47K
R631
11K
R632
18K
R644
3300/J2
C633
0.1
R642
15K/J2
EVF12V
R622
22K/J2
Q605
B1ADGD000005
R623
27K/J2
Q611
2SD2216J0L
R625
100K/J2
R624
100K/J2
C672
1U
C632
PAT/1608
C681
PAT/10U
TO MONITOR
M15V
R636
0/J6
R601
4R7/J6
R604
0/J6
TO EVR
MON_E_B_OUT
MON_E_G_OUT
MON_E_R_OUT
MON_E_PLL
9:C2
R610
100/J2
R611
100/J2
R616
100/J2
R638
100/J2
R639
100/J2
R640
100/J2
CP603
CP602
CP601
C626
1U
C620
0.47
C619
0.47
C618
0.47
C625
0.47
[MON_E_FRP]
C617
1
C604
10V47
C610
0.01
C605
1U
C611
0.1
C607
0.1
C606
0.1
TO VIDEO1
EVF_BOUT
EVF_GOUT
EVF_ROUT
1:W1/9:D1/9:J3
LCD_VBLK
1:B4/9:D2/9:J4
LCD_HD
1:B5/9:D1/9:J4
R626
1000/J2
R606
1000/J2
IC601
C0HBA0000094
COMOUT
VCC2
SIGCENT
VCC1
VREG
V1[B]IN
V2[G]IN
V3[R]IN
GND1
VDIN
HDIN
TEST
FB1
V1[B]OUT
FB2
GND2
V2[G]OUT
FB3
V3[R]OUT
VCCPCD
PCD
GNDPCD
FBPCD
VSS2
CKV2
CKV1
XSTV
STV
XENB
ENB
XSTH
STH
PCG2
PCG1
CKH2
CKH1
VSS1
RESET
RPD
CK1
CK0
CSV
VDD1
LD
DATA
SCLK
VDD2
BLHD/CSH
TO EVF
E_R_OUT
E_G_OUT
E_B_OUT
E_COM
VCK
VST
EN
HST
HCK2
HCK1
BLD
9:C1
9:C2
R658
330/J2
C627
0.1
C612
1U
C628
1U
IC602
TC7SET08FUTL
C0JBAA000115
R609
1000/J2
TO CONTROL
EVF_CS
3:X12/9:D2/9:N5
R614
100K/J2
TO CONTROL/MONITOR
LCD_SD
3:X15/9:D2/9:N5
LCD_SCK
3:X14/9:D2/9:N5
L601 位置移動
L601
3R3/LD
C602
68P
C614
1000P
R657
390K/J2
R618
10K/J2
D601
MA2X33800L
R615
33K/J2
R651
100K/J2
R619
10K/J2
E_PLL
3:X10/9:D2/9:N4
C616
1U
C629
6V3R3/ST
C630
6800P
1
2
A
B
C
D
E
F
G
H
I
J
1
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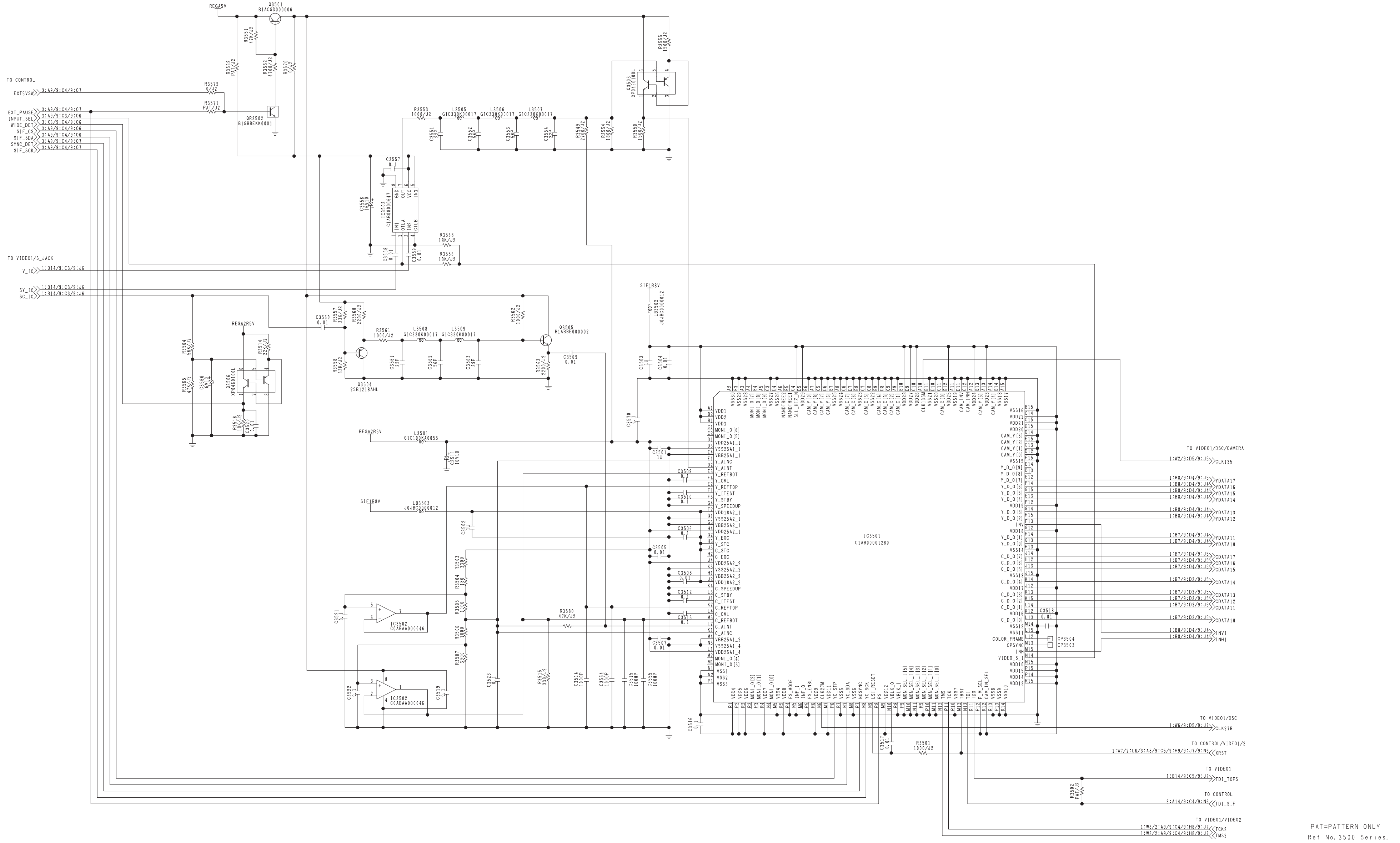
PAT=PATTERN ONLY

Ref No.600 Series.

COMPONENT NAME	VTR(EVF_DRIVER)	04/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (4/9)	
	SCM005	


TO CONTROL
EXT5VSW 3:A9/9:C4/9:07
EXT_PAUSE 3:A9/9:C4/9:07
INPUT_SEL 3:A9/9:C3/9:06
WIDE_DET 3:X6/9:C4/9:06
SIF_CS 3:A9/9:C4/9:06
SIF_SDA 3:A9/9:C4/9:06
SYNC_DET 3:A9/9:C4/9:07
SIF_SCK 3:A9/9:C4/9:07
TO VIDEO1/S_JACK
V_IO 1:B14/9:C3/9:J6
SY_IO 1:B14/9:C3/9:J6
SC_IO 1:B14/9:C3/9:J6
REGA5V
Q3501 B1ACGD000006
R3551 47K/J2
R3569 PAT/J2
R3572 0/J2
R3571 PAT/J2
QR3502 B1GBBEKK0001
R3552 470/J2
R3570 0/J2
R3553 100/J2
L3505 G1C330K00017
L3506 G1C330K00017
L3507 G1C330K00017
C3551 22P
C3552 56P
C3553 56P
C3554 22P
R3549
R3554
R3550
R3555 150/J2
Q3503 XP0460100L
C3557 0.1
IC3503 C1AB00000647
C3556
C3558 0.01
C3559 0.01
R3568 18K/J2
R3556 10K/J2
REGA2R5V
C3560 0.01
R3557 33K/J2
R3560 2200/J2
R3561 1000/J2
L3508 G1C330K00017
L3509 G1C330K00017
R3562 1000/J2
Q3505 B1ABDE000002
R3558 33K/J2
Q3504 2SB1218AHL
C3561 22P
C3562 56P
C3563 33P
R3563 2200/J2
C3569 0.01
R3564 56K/J2
R3514 22K/J2
R3565 47K/J2
C3566 0.01
Q3506 XP0460100L
R3516
C3520 0.01
SIF1R8V
LB3502 J0JBC0000012
C3503
C3504
C3570 0.1
REGA2R5V
L3501 G1C100KA0055
C3511 10V10
C3501 1U
C3509 0.1
C3510 0.1
SIF1R8V
LB3503 J0JBC0000012
C3502 1U
C3506 0.1
C3505 0.01
C3508 0.01
C3512 0.1
C3513 0.1
C3507 0.01
R3503 330
R3504 330
R3505 1500
R3506 1000
R3507 3300
R3580 47K/J2
IC3502 C0ABAA000046
C3521 0.1
C3522 0.1
C3519 0.1
C3523 0.1
R3515 330/J2
C3514 1000P
C3564 1000P
C3515 1000P
C3565 1000P
C3516 0.1
C3517 0.01
R3501 1000/J2
R3502 PAT/J2
C3518 0.01
CP3504
CP3503
IC3501 C1AB00001280
TO VIDEO1/DSC/CAMERA
1:W2/9:D5/9:J5 CLK135
1:B8/9:D4/9:J5 YDATA17
1:B8/9:D4/9:J4 YDATA16
1:B8/9:D4/9:J4 YDATA15
1:B8/9:D4/9:J4 YDATA14
1:B8/9:D4/9:J4 YDATA13
1:B8/9:D4/9:J4 YDATA12
1:B7/9:D4/9:J4 YDATA11
1:B7/9:D4/9:J4 YDATA10
1:B7/9:D4/9:J5 CDATA17
1:B7/9:D4/9:J5 CDATA16
1:B7/9:D4/9:J5 CDATA15
1:B7/9:D3/9:J5 CDATA14
1:B7/9:D3/9:J5 CDATA13
1:B7/9:D3/9:J5 CDATA12
1:B7/9:D3/9:J5 CDATA11
1:B7/9:D3/9:J5 CDATA10
1:B8/9:D4/9:J4 INV1
1:B8/9:D4/9:J4 INH1
TO VIDEO1/DSC
1:W6/9:D5/9:J7 CLK27B
TO CONTROL/VIDEO1/2
1:W7/2:L6/3:A8/9:C5/9:H9/9:J7/9:N6 XRST
TO VIDEO1
1:B14/9:C5/9:J7 TDI_TOPS
TO CONTROL
3:A14/9:C4/9:N6 TDI_SIF
TO VIDEO1/VIDEO2
1:W8/2:A9/9:C4/9:H8/9:J7 TCK2
1:W8/2:A9/9:C4/9:H8/9:J7 TMS2
A
B
C
D
E
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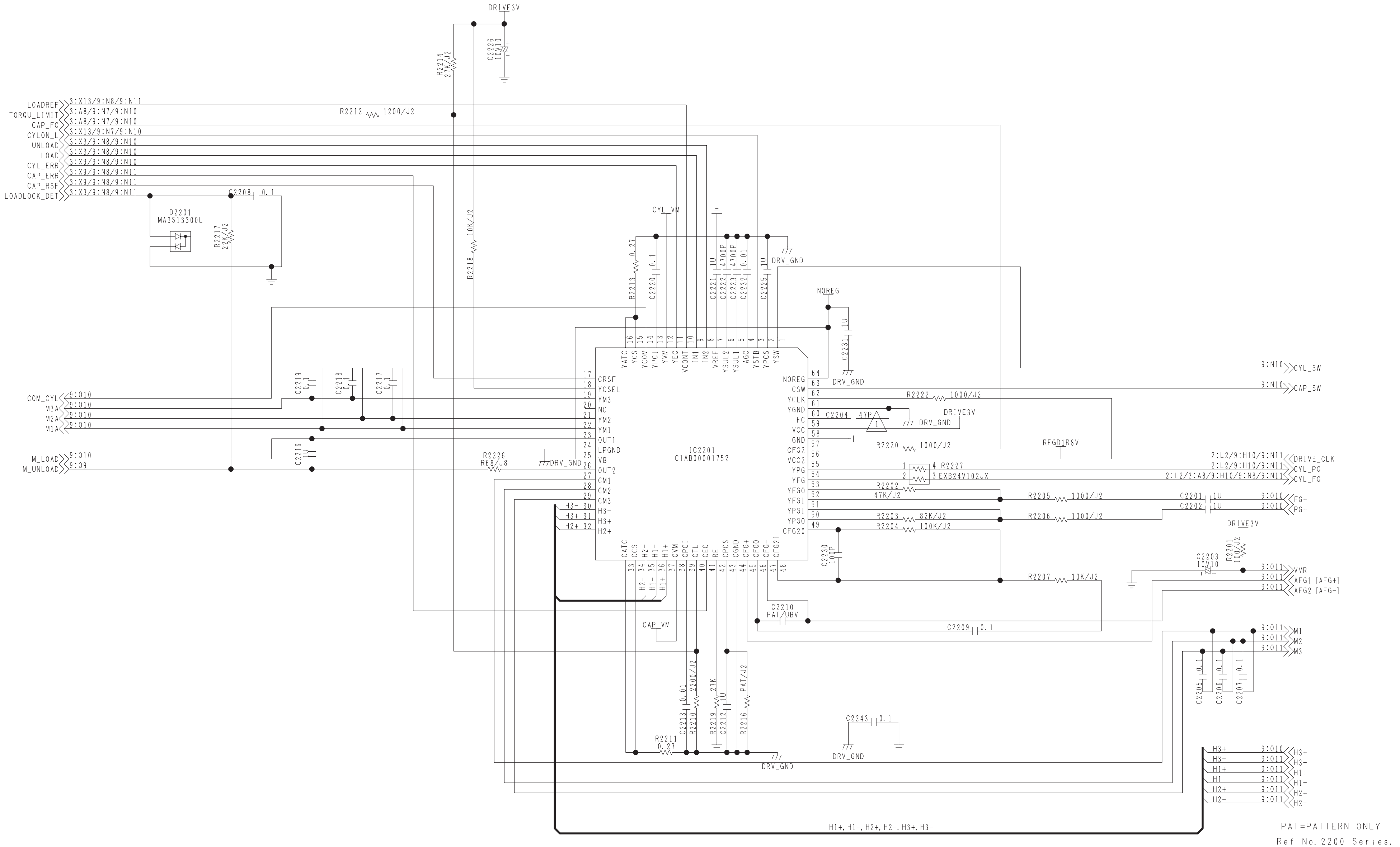
PAT=PATTERN ONLY

Ref No. 3500 Series.

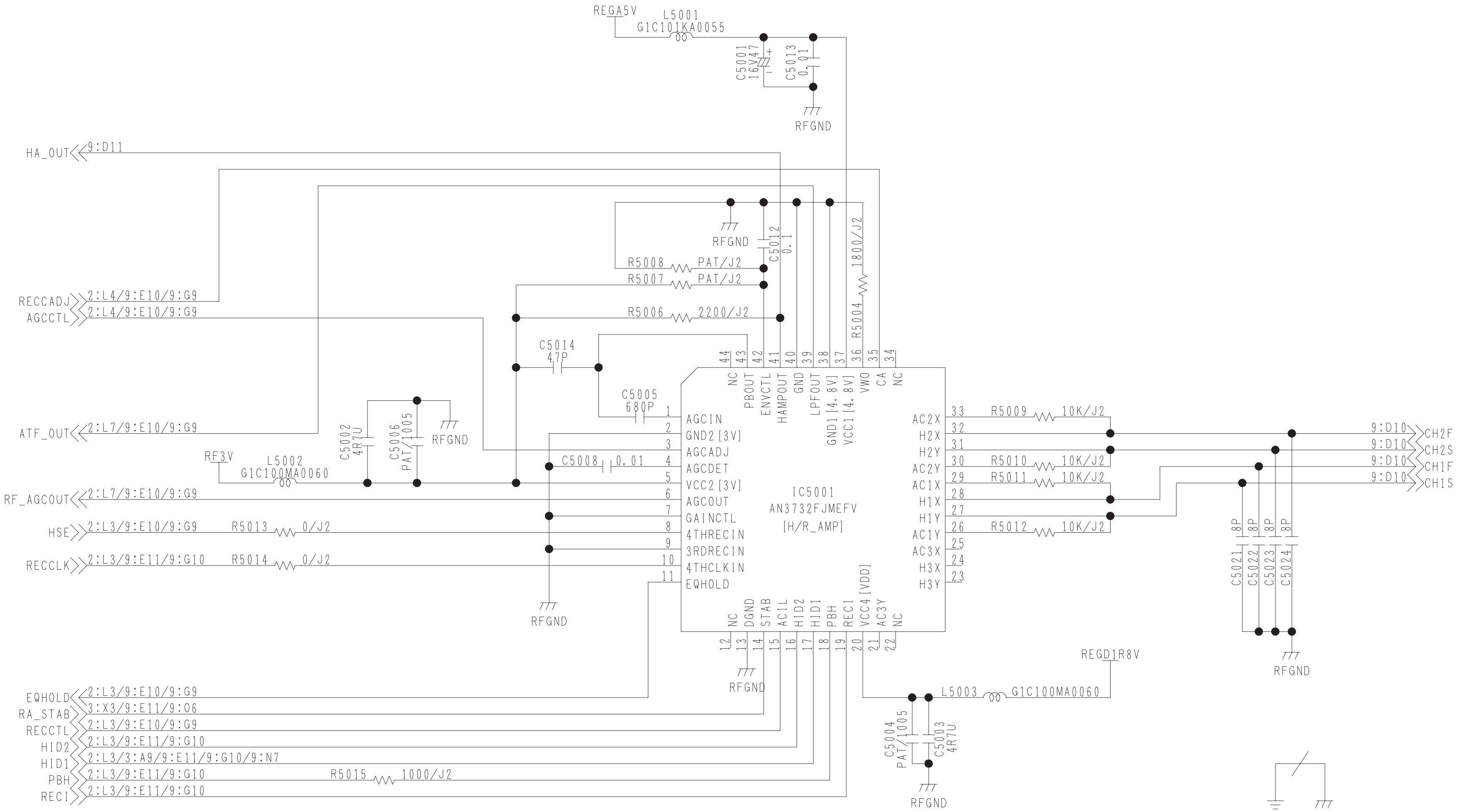
Ref No.	-T, -P, -AN	-E, -MC
C3520	ECJ0WB1C103K	PAT
C3566	ECJ0WB1C103K	PAT
Q3506	XP0460100L	PAT
R3514	ERJ2GEJ223X	PAT
R3564	ERJ2GEJ563X	PAT
R3565	ERJ2GEJ473X	PAT

COMPONENT NAME	VTR(EX_INPUT)	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (5/9)	
	SCM006	


DRIVE3V
C2226 10V10
R2214 27K/J2
LOADREF 3:X13/9:N8/9:N11
TORQU_LIMIT 3:A8/9:N7/9:N10
CAP_FG 3:A8/9:N7/9:N10
CYLON_L 3:X13/9:N7/9:N10
UNLOAD 3:X3/9:N8/9:N10
LOAD 3:X3/9:N8/9:N10
CYL_ERR 3:X9/9:N8/9:N10
CAP_ERR 3:X9/9:N8/9:N11
CAP_RSF 3:X9/9:N8/9:N11
LOADLOCK_DET 3:X3/9:N8/9:N11
R2212 1200/J2
C2208 0.1
D2201 MA3S13300L
R2217 22K/J2
R2218 10K/J2
CYL_VM
R2213 0.27
C2220 0.1
C2221 1U
C2222 4700P
C2223 4700P
C2232 0.01
C2225 1U
DRV_GND
NOREG
C2231 1U
COM_CYL 9:O10
M3A 9:O10
M2A 9:O10
M1A 9:O10
C2219 0.1
C2218 0.1
C2217 0.1
C2216 1U
M_LOAD 9:O10
M_UNLOAD 9:O9
R2226 R68/J8
IC2201 C1AB00001752
YATC YCS YCOM YPCI YVM YEC VCONT IN1 IN2 VREF YSUL2 YSUL1 AGC YSTB YPCS YSW
CRSF YCSEL YM3 NC YM2 YM1 OUT1 LPGND VB OUT2 CM1 CM2 CM3 H3- H3+ H2+
NOREG CSW YCLK YGND FC VCC GND CFG2 VCC2 YPG YFG YFG0 YFG1 YPG1 YPG0 CFG20
CATC CCS H2- H1- H1+ CVM CPCI CTL CEC RE CPCS CGND CFG+ CFG0 CFG- CFG21
R2222 1000/J2
C2204 47P
DRIVE3V
R2220 1000/J2
REGD1R8V
R2227 EXB24V102JX
R2202 47K/J2
R2205 1000/J2
R2203 82K/J2
R2204 100K/J2
R2206 1000/J2
C2230 100P
R2207 10K/J2
C2201 1U
C2202 1U
9:N10 CYL_SW
9:N10 CAP_SW
2:L2/9:H10/9:N11 DRIVE_CLK
2:L2/9:H10/9:N11 CYL_PG
2:L2/3:A8/9:H10/9:N8/9:N11 CYL_FG
9:O10 FG+
9:O10 PG+
R2201 100/J2
C2203 10V10
9:O11 VMR
9:O11 AFG1 [AFG+]
9:O11 AFG2 [AFG-]
C2210 PAT/UBV
C2209 0.1
CAP_VM
9:O11 M1
9:O11 M2
9:O11 M3
C2205 0.1
C2206 0.1
C2207 0.1
C2213 0.01
R2210 2200/J2
R2219 27K
C2212 1U
R2216 PAT/J2
R2211 0.27
C2243 0.1
H3+ 9:O10 H3+
H3- 9:O11 H3-
H1+ 9:O11 H1+
H1- 9:O11 H1-
H2+ 9:O11 H2+
H2- 9:O11 H2-
H1+, H1-, H2+, H2-, H3+, H3-

PAT=PATTERN ONLY
Ref No. 2200 Series.

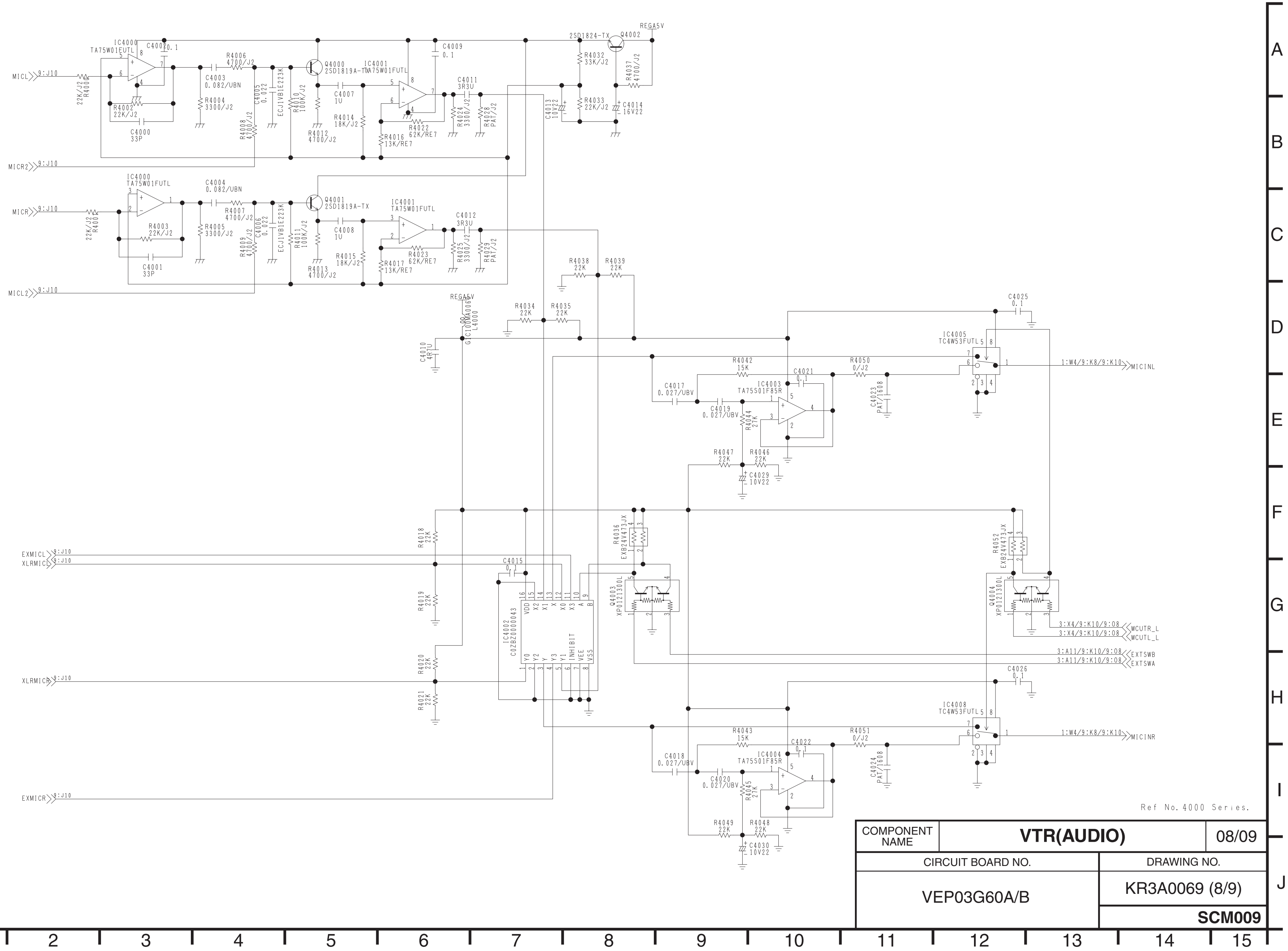
COMPONENT NAME	VTR(DRIVE)	06/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (6/9)	
	SCM007	


REGA5V
L5001
G1C101KA0055
C5001
16V47
C5013
0.01
RFGND
HA_OUT
9:D11
RFGND
C5012
0.1
R5008
PAT/J2
R5007
PAT/J2
R5006
2200/J2
R5004
1800/J2
RECCADJ
2:L4/9:E10/9:G9
AGCCTL
2:L4/9:E10/9:G9
C5014
47P
C5005
680P
ATF_OUT
2:L7/9:E10/9:G9
C5002
4R7U
C5006
PAT/1005
RFGND
RF3V
L5002
G1C100MA0060
C5008
0.01
RF_AGCOUT
2:L7/9:E10/9:G9
HSE
2:L3/9:E10/9:G9
R5013
0/J2
RECCLK
2:L3/9:E11/9:G10
R5014
0/J2
RFGND
44 NC
43 PBOUT
42 ENVCTL
41 HAMPOUT
40 GND
39 LPFOUT
38 GND1[4.8V]
37 VCC1[4.8V]
36 VWO
35 CA
34 NC
1 AGCIN
2 GND2[3V]
3 AGCADJ
4 AGCDET
5 VCC2[3V]
6 AGCOUT
7 GAINCTL
8 4THRECIN
9 3RDRECIN
10 4THCLKIN
11 EQHOLD
IC5001
AN3732FJMEFV
[H/R_AMP]
33 AC2X
32 H2X
31 H2Y
30 AC2Y
29 AC1X
28 H1X
27 H1Y
26 AC1Y
25 AC3X
24 H3X
23 H3Y
12 NC
13 DGND
14 STAB
15 AC1L
16 HID2
17 HID1
18 PBH
19 RECI
20 VCC4[VDD]
21 AC3Y
22 NC
R5009
10K/J2
R5010
10K/J2
R5011
10K/J2
R5012
10K/J2
9:D10
CH2F
9:D10
CH2S
9:D10
CH1F
9:D10
CH1S
C5021
8P
C5022
8P
C5023
8P
C5024
8P
RFGND
REGD1R8V
RFGND
L5003
G1C100MA0060
C5004
PAT/1005
C5003
4R7U
RFGND
EQHOLD
2:L3/9:E10/9:G9
RA_STAB
3:X3/9:E11/9:06
RECCTL
2:L3/9:E10/9:G9
HID2
2:L3/9:E11/9:G10
HID1
2:L3/3:A9/9:E11/9:G10/9:N7
PBH
2:L3/9:E11/9:G10
R5015
1000/J2
RECI
2:L3/9:E11/9:G10
RFGND

PAT=PATTERN ONLY

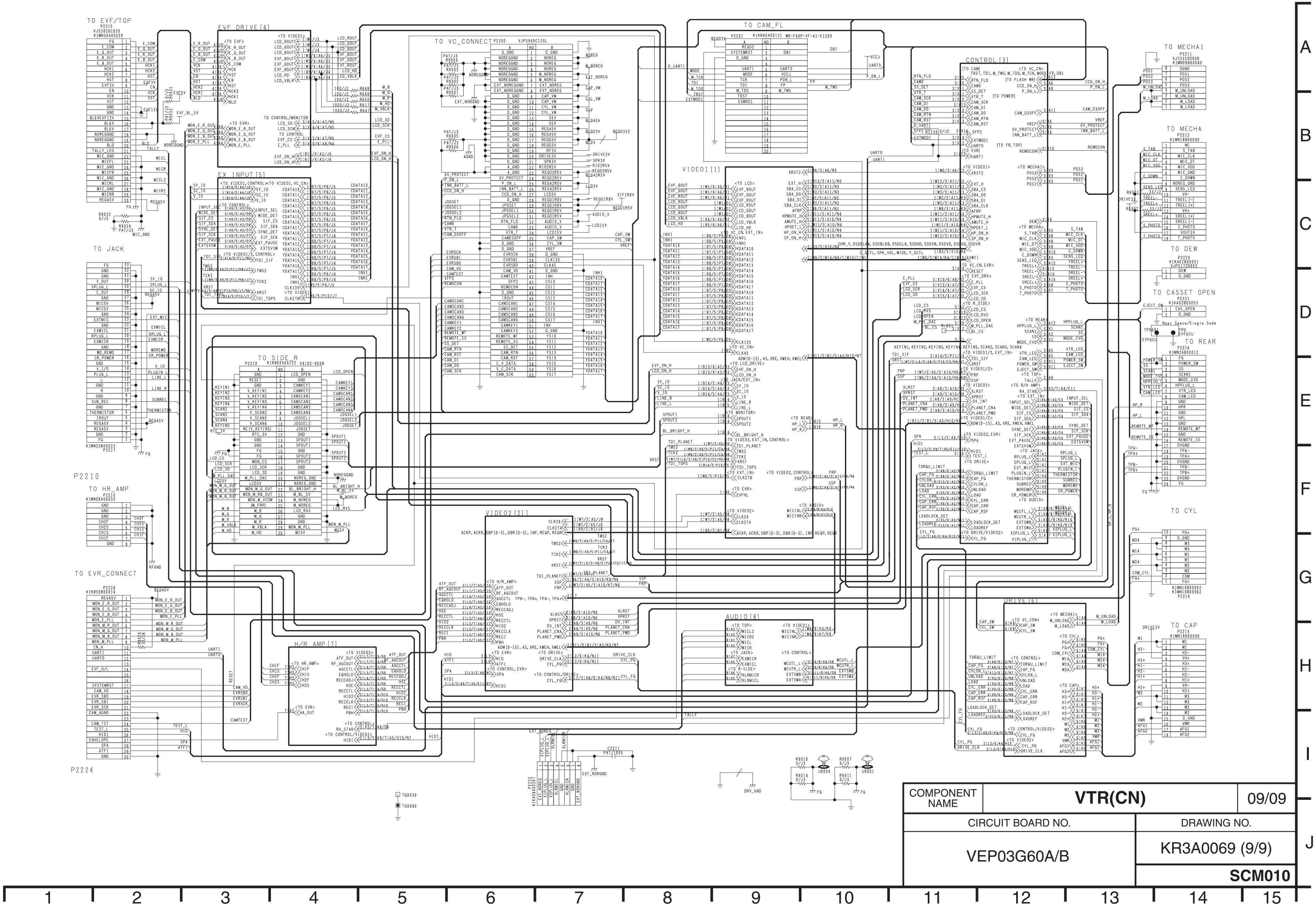
Ref No.5000 Series.

COMPONENT NAME	VTR(HR_AMP)	07/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (7/9)	
	SCM008	


MICL 9:J10
R4000 22K/J2
IC4000 TA75W01FUTL
C4002 0.1
R4002 22K/J2
C4000 33P
C4003 0.082/UBN
R4004 3300/J2
R4006 4700/J2
R4008 4700/J2
C4005 0.022 ECJ1VB1E223K
R4010 100K/J2
Q4000 2SD1819A-TX
R4012 4700/J2
C4007 1U
R4014 18K/J2
IC4001 TA75W01FUTL
R4016 13K/RE7
R4022 62K/RE7
C4009 0.1
C4011 3R3U
R4024 3300/J2
R4028 PAT/J2
C4013 10V22
2SD1824-TX Q4002
REGA5V
R4032 33K/J2
R4033 22K/J2
R4037 4700/J2
C4014 16V22
MICR2 9:J10
MICR 9:J10
R4001 22K/J2
IC4000 TA75W01FUTL
R4003 22K/J2
C4001 33P
C4004 0.082/UBN
R4005 3300/J2
R4007 4700/J2
R4009 4700/J2
C4006 0.022 ECJ1VB1E223K
R4011 100K/J2
Q4001 2SD1819A-TX
R4013 4700/J2
C4008 1U
R4015 18K/J2
IC4001 TA75W01FUTL
R4017 13K/RE7
R4023 62K/RE7
C4012 3R3U
R4025 3300/J2
R4029 PAT/J2
MICL2 9:J10
R4038 22K
R4039 22K
REGA5V
L4000 G1C100MA0065
C4010 4R7U
R4034 22K
R4035 22K
C4025 0.1
IC4005 TC4W53FUTL
R4042 15K
C4017 0.027/UBV
C4019 0.027/UBV
IC4003 TA75S01F85R
C4021 0.1
R4044 27K
R4050 0/J2
C4023 PAT/1608
1:W4/9:K8/9:K10 MICINL
R4047 22K
R4046 22K
C4029 10V22
R4018 22K
R4019 22K
R4020 22K
R4021 22K
EXMICL 9:J10
XLRMICL 9:J10
XLRMICR 9:J10
EXMICR 9:J10
C4015 0.1
IC4002 COZBZ0000043
VDD X2 X1 X X0 X3 A B
Y0 Y2 Y Y3 Y1 INHIBIT VEE VSS
R4036 EXB24V473JX
Q4003 XP0121300L
R4052 EXB24V473JX
Q4004 XP0121300L
3:X4/9:K10/9:08 WCUTR_L
3:X4/9:K10/9:08 WCUTL_L
3:A11/9:K10/9:08 EXTSWB
3:A11/9:K10/9:08 EXTSWA
C4026 0.1
IC4008 TC4W53FUTL
R4043 15K
C4018 0.027/UBV
C4020 0.027/UBV
IC4004 TA75S01F85R
C4022 0.1
R4045 27K
R4051 0/J2
C4024 PAT/1608
1:W4/9:K8/9:K10 MICINR
R4049 22K
R4048 22K
C4030 10V22
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Ref No. 4000 Series.

COMPONENT NAME	**VTR(AUDIO)**	08/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (8/9)	
	SCM009	


TO EVF/TOP
P2215
EVF DRIVE[4]
TO VC_CONNECT
P2200
TO CAM_FL
P2201
CONTROL[3]
TO MECHA1
P2211
TO MECHA
P2212
EX INPUT[5]
VIDEO1[1]
TO JACK
P2217
TO SIDE_R
P2219
TO DEW
P2220
TO CASSET OPEN
P2221
TO REAR
P2216
P2210
TO HR_AMP
VIDEO2[2]
TO CYL
P2214
TO EVR_CONNECT
P2224
H/R AMP[7]
AUDIO[8]
DRIVE[6]
TO CAP
P2213
P2222
A
B
C
D
E
F
G
H
I
J
1
2
3
4
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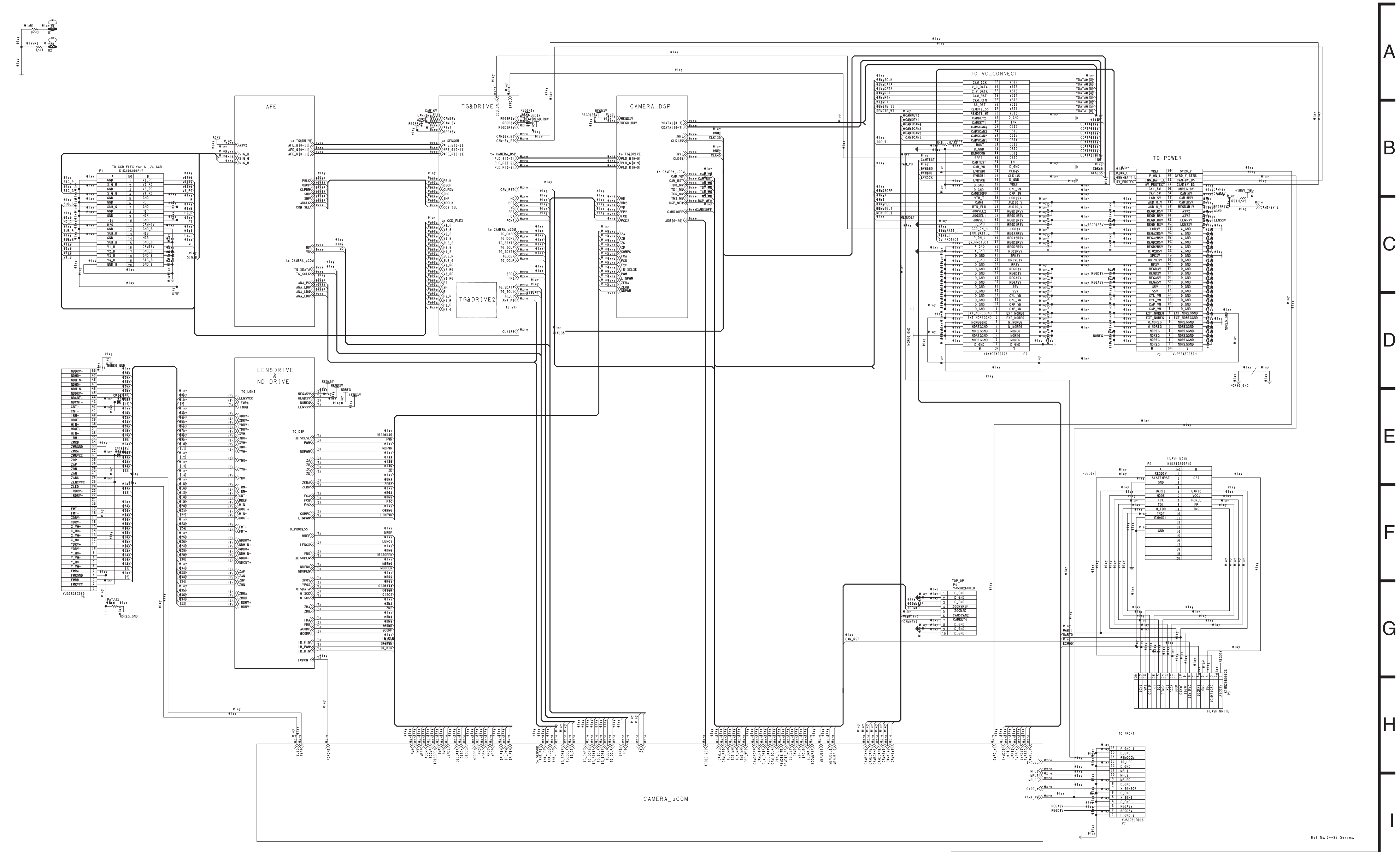
COMPONENT NAME	VTR(CN)	09/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (9/9)	
	SCM010	


AFE
TG&DRIVE
TG&DRIVE2
CAMERA_DSP
TO VC_CONNECT
TO POWER
TO CCD FLEX for 5-1/4 CCD
LENSDRIVE
&
ND DRIVE
CAMERA_uCOM
FLASH BtoB
FLASH WRITE
TOP_OP
TO_FRONT
A
B
C
D
E
F
G
H
I
J
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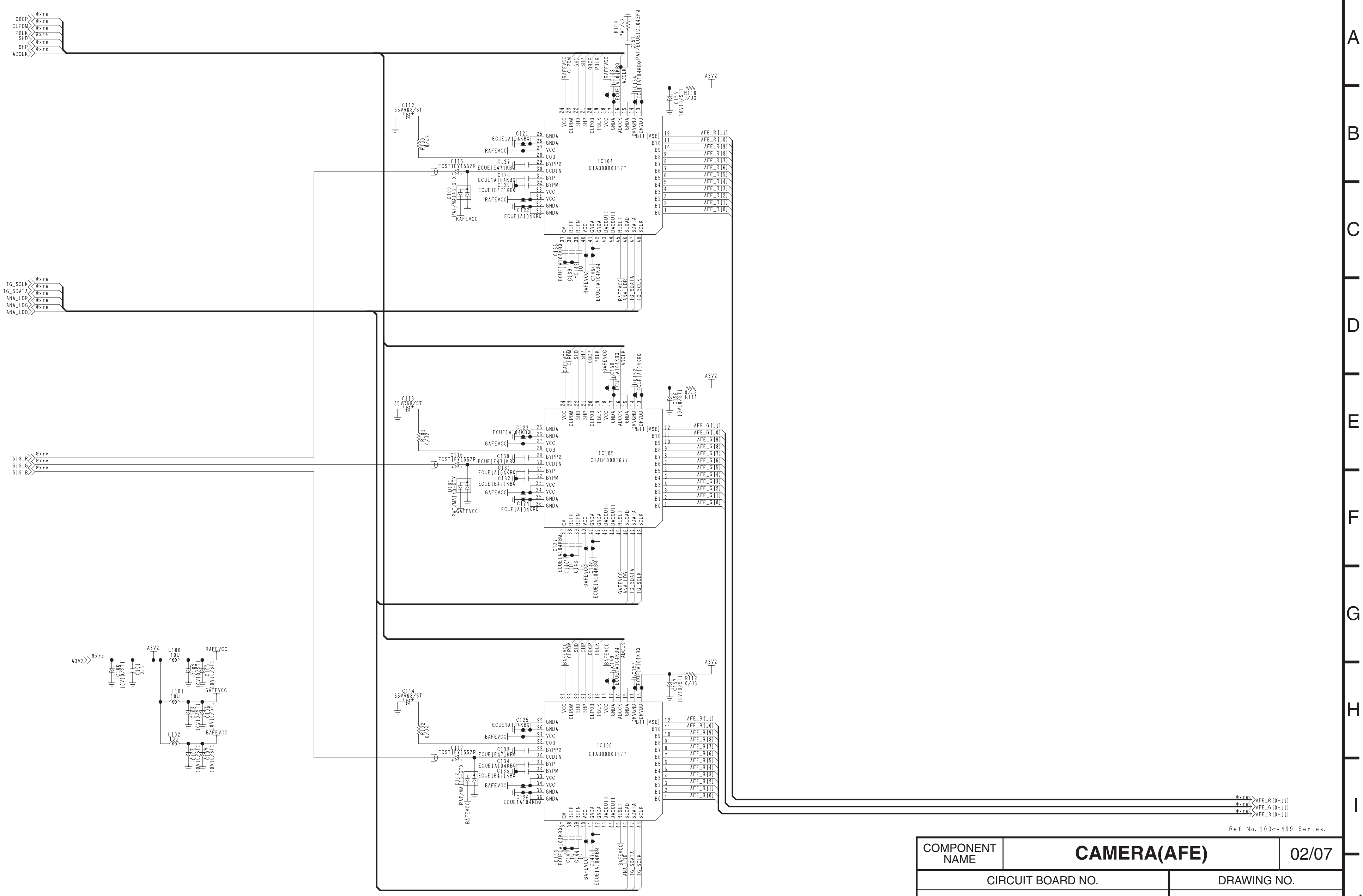
Ref No.0~99 Series.

COMPONENT NAME	CAMERA(SUB_CN)	01/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23598A/B	KR3A0045 (1/7)	
	SCM011	


OBCP
CLPDM
PBLK
SHD
SHP
ADCLK
TG_SCLK
TG_SDATA
ANA_LDR
ANA_LDG
ANA_LDB
SIG_R
SIG_G
SIG_B
A3V2
L100 10U
L101 10U
L102 10U
RAFEVCC
GAFEVCC
BAFEVCC
C112 35VR68/ST
C113 35VR68/ST
C114 35VR68/ST
C115 ECST1EY155ZR
C116 ECST1EY155ZR
C117 ECST1EY155ZR
D100 PAT/MA142-GTX
D101 PAT/MA142-GTX
D102 PAT/MA142-GTX
R109 PAT/J2
R110 0/J3
R111 0/J3
R112 0/J3
IC104 C1AB00001677
IC105 C1AB00001677
IC106 C1AB00001677
ECUE1A104KBQ
ECUE1E471KBQ
10V10/ST1
VCC
CLPDM
SHD
SHP
CLPOB
PBLK
GNDA
ADCCK
DRVGND
DRVDD
COB
BYPP2
CCDIN
BYP
BYPM
CM
REFP
REFN
DACOUT0
DACOUT1
RESET
SLOAD
SDATA
SCLK
B11[MSB]
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1
B0
AFE_R[11]
AFE_R[10]
AFE_R[9]
AFE_R[8]
AFE_R[7]
AFE_R[6]
AFE_R[5]
AFE_R[4]
AFE_R[3]
AFE_R[2]
AFE_R[1]
AFE_R[0]
AFE_G[11]
AFE_G[10]
AFE_G[9]
AFE_G[8]
AFE_G[7]
AFE_G[6]
AFE_G[5]
AFE_G[4]
AFE_G[3]
AFE_G[2]
AFE_G[1]
AFE_G[0]
AFE_B[11]
AFE_B[10]
AFE_B[9]
AFE_B[8]
AFE_B[7]
AFE_B[6]
AFE_B[5]
AFE_B[4]
AFE_B[3]
AFE_B[2]
AFE_B[1]
AFE_B[0]
AFE_R[0-11]
AFE_G[0-11]
AFE_B[0-11]
A
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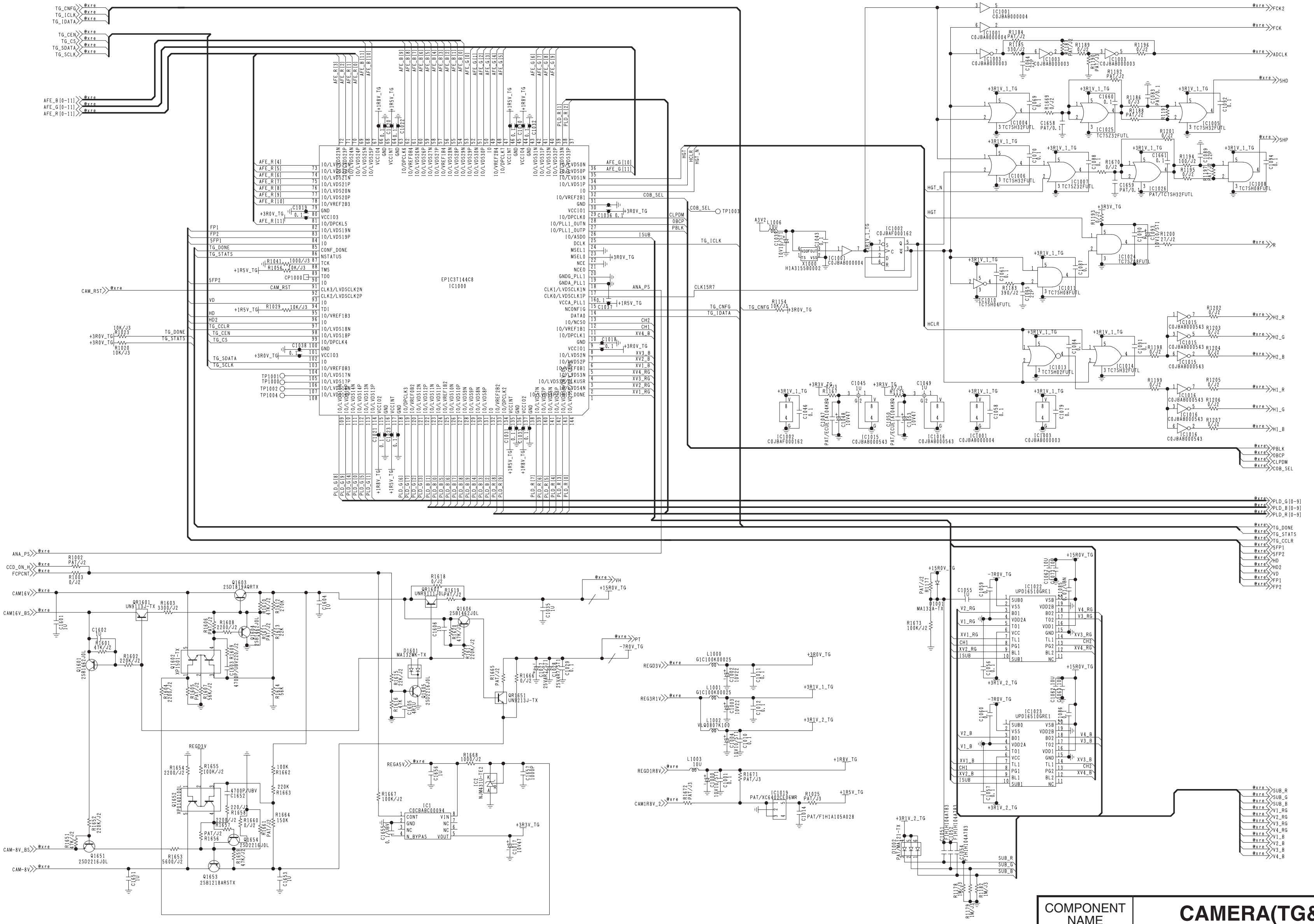
Ref No. 100〜499 Series.

COMPONENT NAME	CAMERA(AFE)		02/07
CIRCUIT BOARD NO.		DRAWING NO.	
VEP23598A/B		KR3A0045 (2/7)	
		SCM012	


TG_CNFG
TG_ICLK
TG_IDATA
TG_CEN
TG_CS
TG_SDATA
TG_SCLK
AFE_B[0-11]
AFE_G[0-11]
AFE_R[0-11]
EP1C3T144C8
IC1000
CAM_RST
TG_DONE
TG_STATS
ANA_PS
CCD_ON_H
FCPCNT
CAM16V
CAM16V_BS
CAM-8V_BS
CAM-8V
REGD3V
REGA5V
REGD3V
REG3R1V
REGD1R8V
CAM1R8V_2
+3R0V_TG
+3R1V_1_TG
+3R1V_2_TG
+1R8V_TG
+1R5V_TG
+15R0V_TG
-7R0V_TG
VH
PT
UPD16510GRE1
IC1022
IC1023
FCK2
FCK
ADCLK
SHD
SHP
R
H2_R
H2_G
H2_B
H1_R
H1_G
H1_B
PBLK
OBCP
CLPDM
COB_SEL
PLD_G[0-9]
PLD_B[0-9]
PLD_R[0-9]
TG_CCLR
SFP1
SFP2
HD
HD2
VD
FP1
FP2
SUB_R
SUB_G
SUB_B
V1_RG
V2_RG
V3_RG
V4_RG
V1_B
V2_B
V3_B
V4_B
A
B
C
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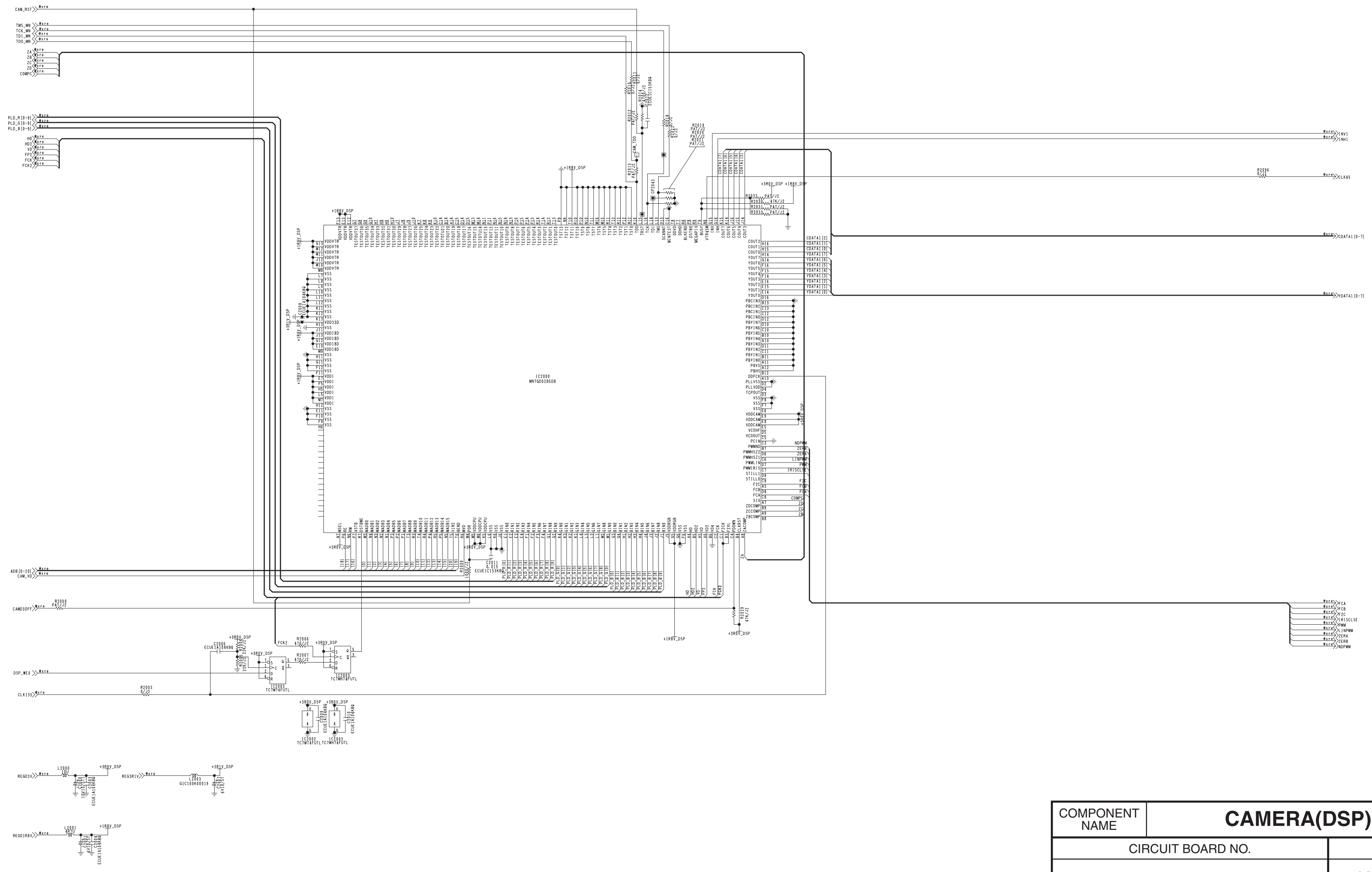
Ref No.1000～1499 Series.

COMPONENT NAME	CAMERA(TG&DRIVE)	03/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23598A/B	KR3A0045 (3/7)	
	SCM013	


A
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C
D
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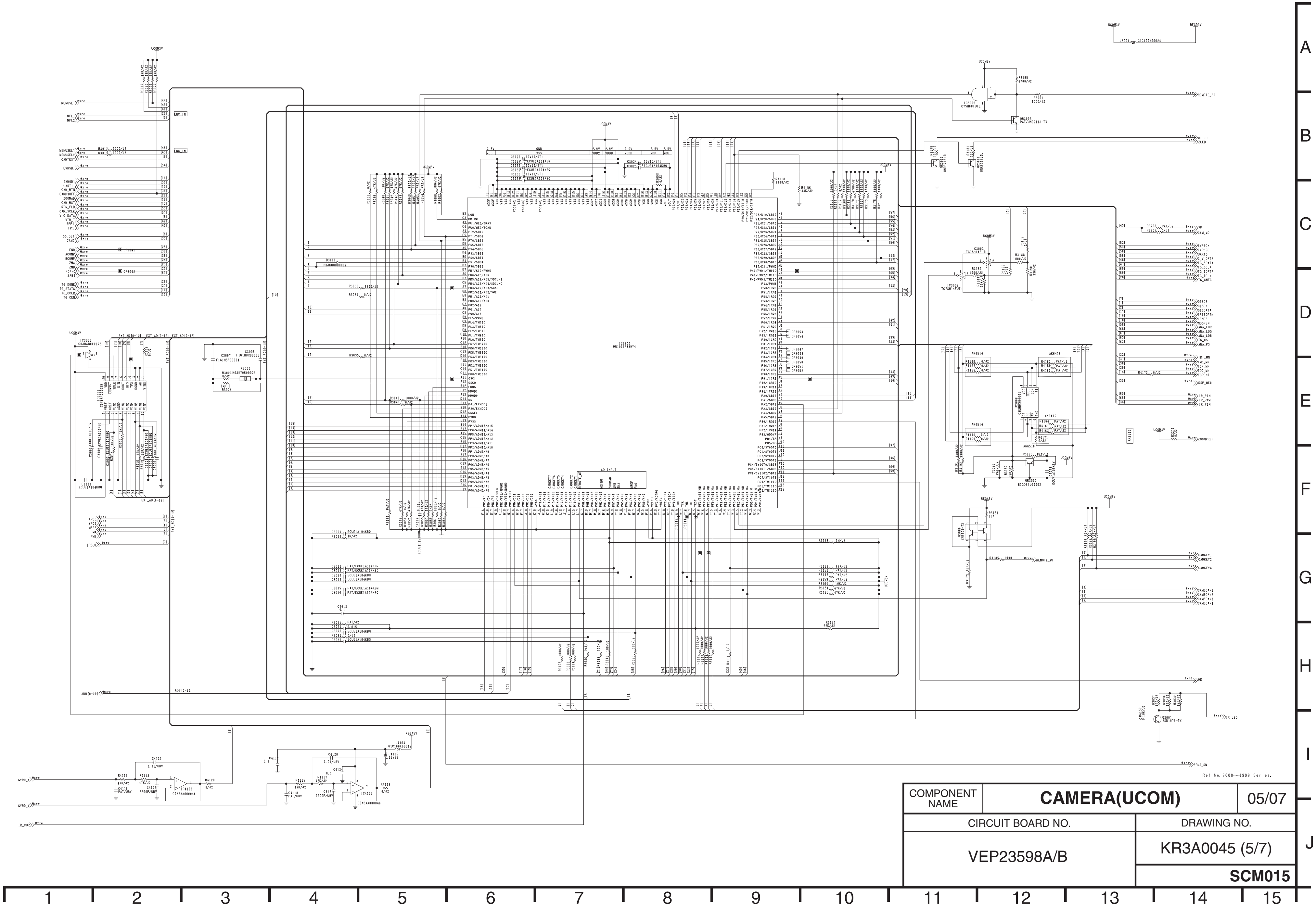
Ref No. 2000~2999 Series.

COMPONENT NAME	CAMERA(DSP)	04/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23598A/B	KR3A0045 (4/7)	
	SCM014	


A
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C
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G
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8
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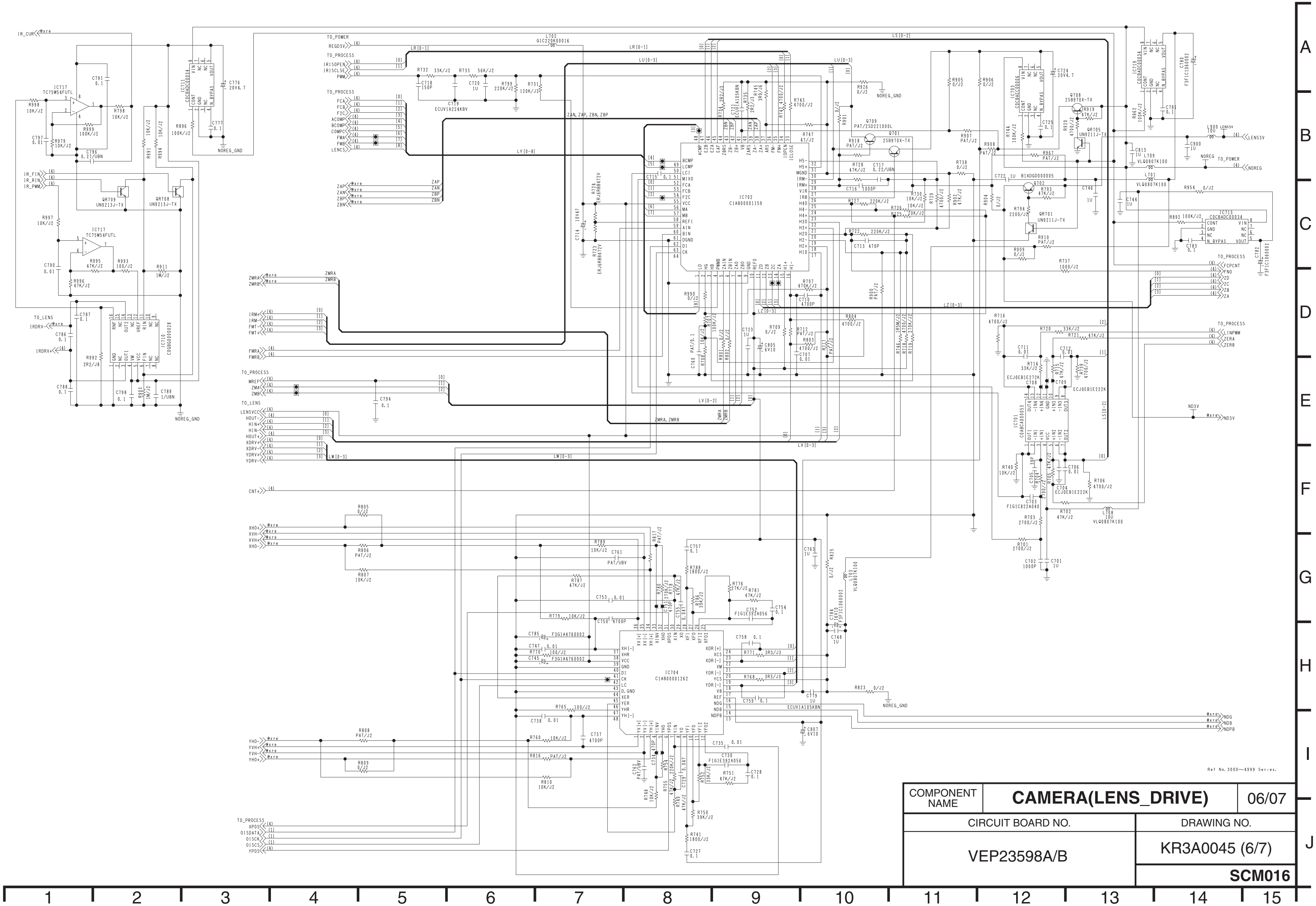
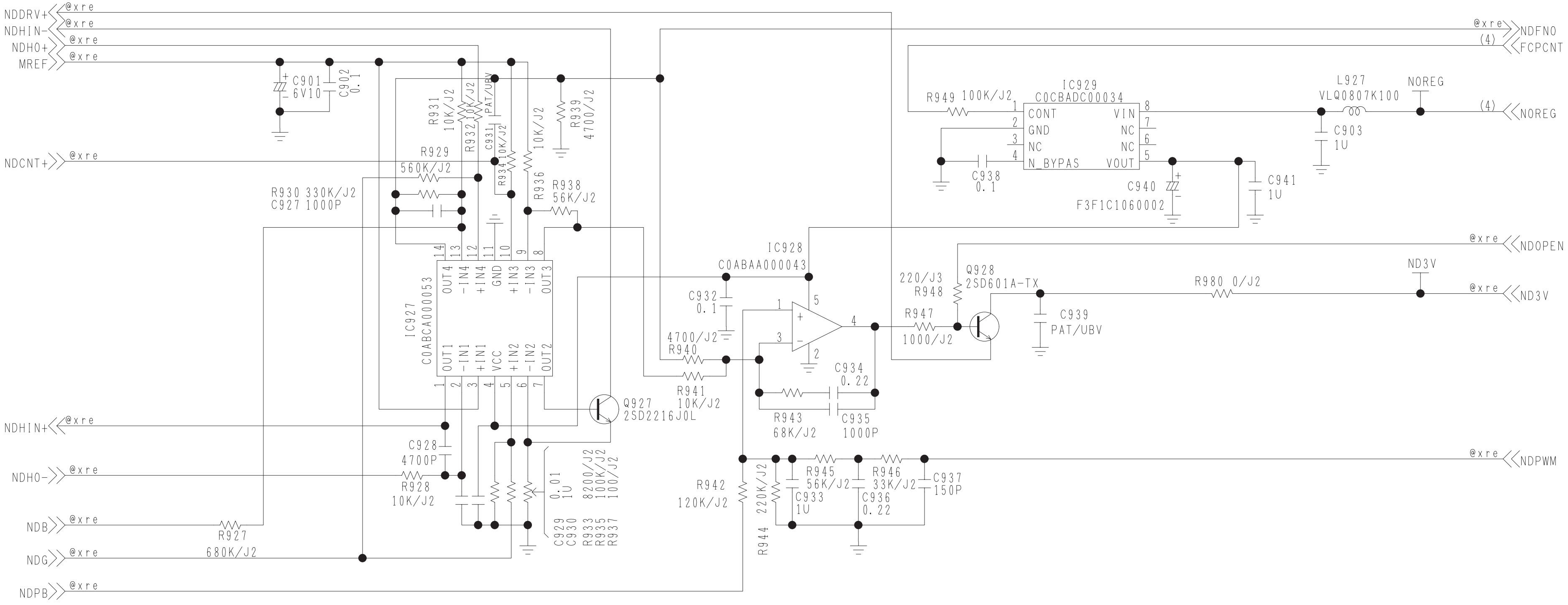
11
12
13
14
15
IC3500
MN103SF33MY4
UCOM3V
REG3V
REG45V
ENC_IN
EXT_AD[0-12]
ADB[0-20]
AD_INPUT
REMOTE_SS
WFLED
ZLED
VD
CAM_VD
REMOTE_WT
CAMKEY1
CAMKEY2
CAMKEY4
CAMSCAN1
CAMSCAN2
CAMSCAN3
CAMSCAN4
HD
IR_LED
SENS_SW
ZOOMVREF
GYRO_Y
GYRO_X
IR_CUR
MENUSET
MENUSEL1
MENUSEL2
CAMTEST
EVRSBI
VPOS
YPOS
WREF
FWA
FWB
IROUT
IC4105
IC6105
AK6510
AK6416
Ref No.3000~4999 Series.

COMPONENT NAME	CAMERA(UCOM)	05/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23598A/B	KR3A0045 (5/7)	
	SCM015	


IR_CUR
IC717 TC75W54FUTL
R998 10K/J2
R798 10K/J2
R999 100K/J2
C796 0.27/UBN
IR_FIN
IR_RIN
IR_PWM
QR709 UN9213J-TX
QR708 UN9213J-TX
R997 10K/J2
R995 47K/J2
R993 100/J2
R911 1M/J2
R996 47K/J2
TO_LENS
IRDRV-
IRDRV+
R992 2R2/J8
IC710 C0GBG0000028
C789 1/UBN
NOREG_GND
IC711 C0CBADC00034
C776 20V4.7
R896 100K/J2
TO_POWER
REGD3V
TO_PROCESS
IRISOPEN
IRISCLSE
PWM
L702 G1C220K00016
LR[0-1]
LU[0-3]
R732 33K/J2
R733 56K/J2
R799 220K/J2
R731 120K/J2
C718 150P
C720 1U
C719 ECUV1A224KBV
FCA FCB F2C ACOMP BCOMP COMPC FMA FMB LENCS
LY[0-8]
ZAN, ZAP, ZBN, ZBP
ZAP ZAN ZBP ZBN
IC702 C1AB00001159
R724 ERJ6RBB472V
R723 ERJ6RBB472V
C714 10V47
R926 0/J2
R905 0/J2
R906 0/J2
IC703 C0CBADC00034
C724 20V4.7
IC719 C0CBADC00034
C788 F3F1C106002
Q708 2SB970X-TX
R919 47K/J2
QR705 UN9211J-TX
L900 10U LENS3V
C900 1U
TO_POWER
NOREG
L709 VLQ0807K100
L701 VLQ0807K100
Q709 PAT/2SD2221000L
Q701 2SB970X-TX
R918 PAT/J2
R747 47/J2
R743 4700/J2
C717 0.22/UBN
R738 0/J2
C722 1U B1ADG0000005
Q702
R793 47K/J2
R794 2200/J2
QR701 UN9211J-TX
R910 PAT/J2
R909 0/J2
R737 1000/J2
R954 0/J2
IC713 C0CBADC00034
R892 100K/J2
C782 F3F1C106002
FCPCNT FNO ZD ZC ZB ZA
LS[0-2]
LZ[0-3]
ZMRA ZMRB
IRM+ IRM- FMT- FMT+
FMRA FMRB
R990 0/J2
R797 4700/J2
C710 4700P
R804 4700/J2
R716 4700/J2
R720 33K/J2
R721 47K/J2
LINPMW ZERA ZERB
TO_PROCESS
MREF ZMK ZMR
C794 0.1
TO_LENS
LENSVCC HOUT- HIN+ HIN- HOUT+ XDRV+ XDRV- YDRV+ YDRV-
LV[0-2]
ZMRA, ZMRB
LX[0-3]
LW[0-3]
IC701 C0ABCA000053
R714 33K/J2
ECJ0EB1E272K
ECJ0EB1E222K
ND3V
R740 10K/J2
C703 F1G1C822A040
R703 2700/J2
R702 47K/J2
L708 10U VLQ0807K100
R706 4700/J2
R701 2700/J2
C702 1000P
C701 1U
CNT+
R805 0/J2
XHO+ XVH- XVH+ XHO-
R806 PAT/J2
R807 10K/J2
R789 10K/J2
C761 PAT/UBV
R787 47K/J2
C753 0.01
R779 10K/J2
C750 4700P
R788 1800/J2
R776 27K/J2
R781 47K/J2
C752 F1G1E392A056
C754 0.1
IC704 C1AB00001262
C785 F3G1A4760002
C747 0.01
R770 100/J2
C745 F3G1A4760002
R765 100/J2
C738 0.01
C737 4700P
C758 0.1
R771 3R3/J3
R768 3R3/J3
C759 0.1
C779 1U ECUV1A105KBN
R823 0/J2
NOREG_GND
NDG NDB NDPB
C807 6V10
C748 1U
L903 VLQ0807K100
C784 F3F1C106002
YHO- YVH+ YVH- YHO+
R808 PAT/J2
R809 0/J2
R760 10K/J2
R816 PAT/J2
R810 10K/J2
C735 0.01
C730 F1G1E392A056
R751 47K/J2
C728 0.1
R750 39K/J2
R741 1800/J2
C727 0.1
R748 10K/J2
TO_PROCESS
XPOS OISDATA OISCK OISCS YPOS
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

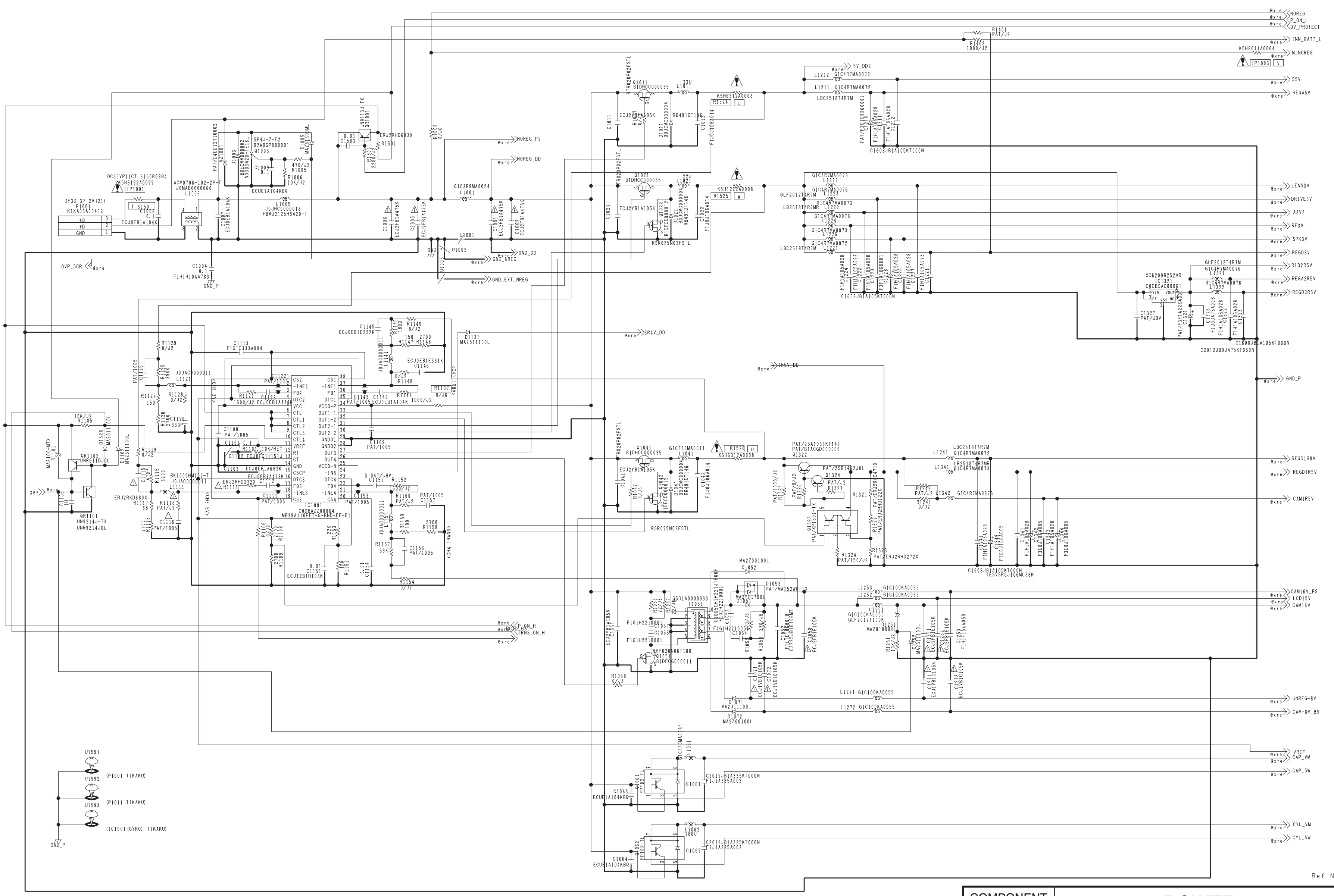
Ref No.3000～4999 Series.

COMPONENT NAME	CAMERA(LENS_DRIVE)	06/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23598A/B	KR3A0045 (6/7)	
	SCM016	


NDDRV+
NDHIN-
NDHO+
MREF
NDCNT+
NDHIN+
NDHO-
NDB
NDG
NDPB
@xre
C901 6V10
C902 0.1
R931 10K/J2
R932 10K/J2
C931 PAT/UBV
R934 10K/J2
R936 10K/J2
R939 4700/J2
R929 560K/J2
R930 330K/J2
C927 1000P
R938 56K/J2
IC927 C0ABCA000053
OUT4 -IN4 +IN4 GND +IN3 -IN3 OUT3
OUT1 -IN1 +IN1 VCC +IN2 -IN2 OUT2
Q927 2SD2216J0L
C928 4700P
R928 10K/J2
R927 680K/J2
C929 0.01
C930 1U
R933 8200/J2
R935 100K/J2
R937 100/J2
IC928 C0ABAA000043
C932 0.1
4700/J2 R940
R941 10K/J2
R943 68K/J2
C934 0.22
C935 1000P
R942 120K/J2
R944 220K/J2
R945 56K/J2
C933 1U
R946 33K/J2
C936 0.22
C937 150P
R947 1000/J2
220/J3 R948
Q928 2SD601A-TX
C939 PAT/UBV
R980 0/J2
ND3V
NDOPEN
NDPWM
NDFNO
(4) FCPCNT
R949 100K/J2
IC929 C0CBADC00034
CONT GND NC N_BYPAS
VIN NC NC VOUT
C938 0.1
C940 F3F1C1060002
C941 1U
L927 VLQ0807K100
NOREG
C903 1U
(4) NOREG
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Ref No.900～999 Series.

COMPONENT NAME	CAMERA(ND_DRIVE)	07/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23598A/B	KR3A0045 (7/7)	
	SCM017	


NOREG
P_ON_L
OV_PROTECT
INN_BATT_L
M_NOREG
5SV
REGA5V
5V_DD2
LENS3V
DRIVE3V
A3V2
RF3V
SPK3V
REGD3V
RIO2R5V
REGA2R5V
REGD2R5V
GND_P
REGD1R8V
REGD1R5V
CAM1R5V
CAM16V_BS
LCD15V
CAM16V
UNREG-8V
CAM-8V_BS
VREF
CAP_VM
CAP_SW
CYL_VM
CYL_SW
NOREG_P2
NOREG_DD
GND_DD
GND_NREG
GND_EXT_NREG
9R4V_DD
1R5V_DD
P_ON_H
TRNS_ON_H
OVP_SCR
OVP
P1001
+B
+D
GND
IC1001
MB39A110PFT-G-BND-EF-E1
T1051
U1591
U1592
U1593
(P1001 T(KAKU))
(P1011 T(KAKU))
(IC1901(GYRO) T(KAKU))
Ref No.1000 Series.
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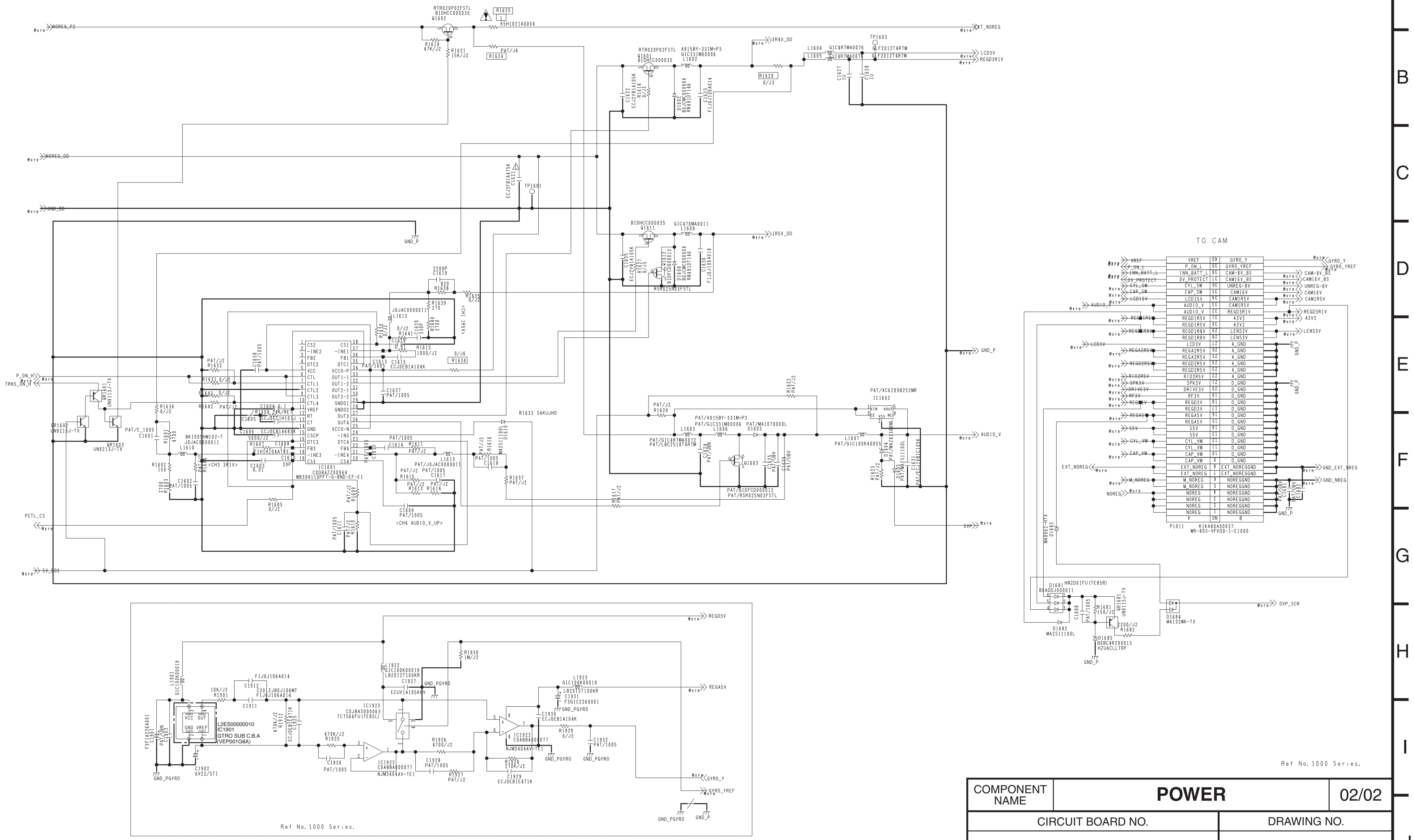
COMPONENT NAME	POWER	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01952A	KR1A0057 (1/2)	
	SCM018	

IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

⚠ 警 告 ⚠印の部品は安全上重要な部品です。
交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。


NOREG_P2
EXT_NOREG
NOREG_DD
GND_DD
GND_P
5V_DD2
PCTL_CS
P_ON_H
TRNS_ON_H
3R4V_DD
LCD3V
REGD3R1V
1R5V_DD
AUDIO_V
OVP
TO CAM
IC1601
C0DBAZZ00064
MB39A110PFT-G-BND-EF-E1
PAT/XC6209B252MR
IC1602
R1633 SAKUJHO
<CH3 3R1V>
<CH4 AUDIO_V_UP>
P1011 K1KA80A00037
WR-80S-VFH30-1-E1000
HN2D01FU(TE85R)
OVP_SCR
GND_EXT_NREG
GND_NREG
REGD3V
REGA5V
GYRO_Y
GYRO_YREF
GND_PGYRO
L2ES00000010
IC1901
GTRO SUB C.B.A
(VEP001G8A)
IC1923
C0JBAS000063
TC7S66FU(TE85L)
IC1922
C0ABBA000077
NJM3404AV-TE1
Ref No.1000 Series.
Ref No.1000 Series.
A
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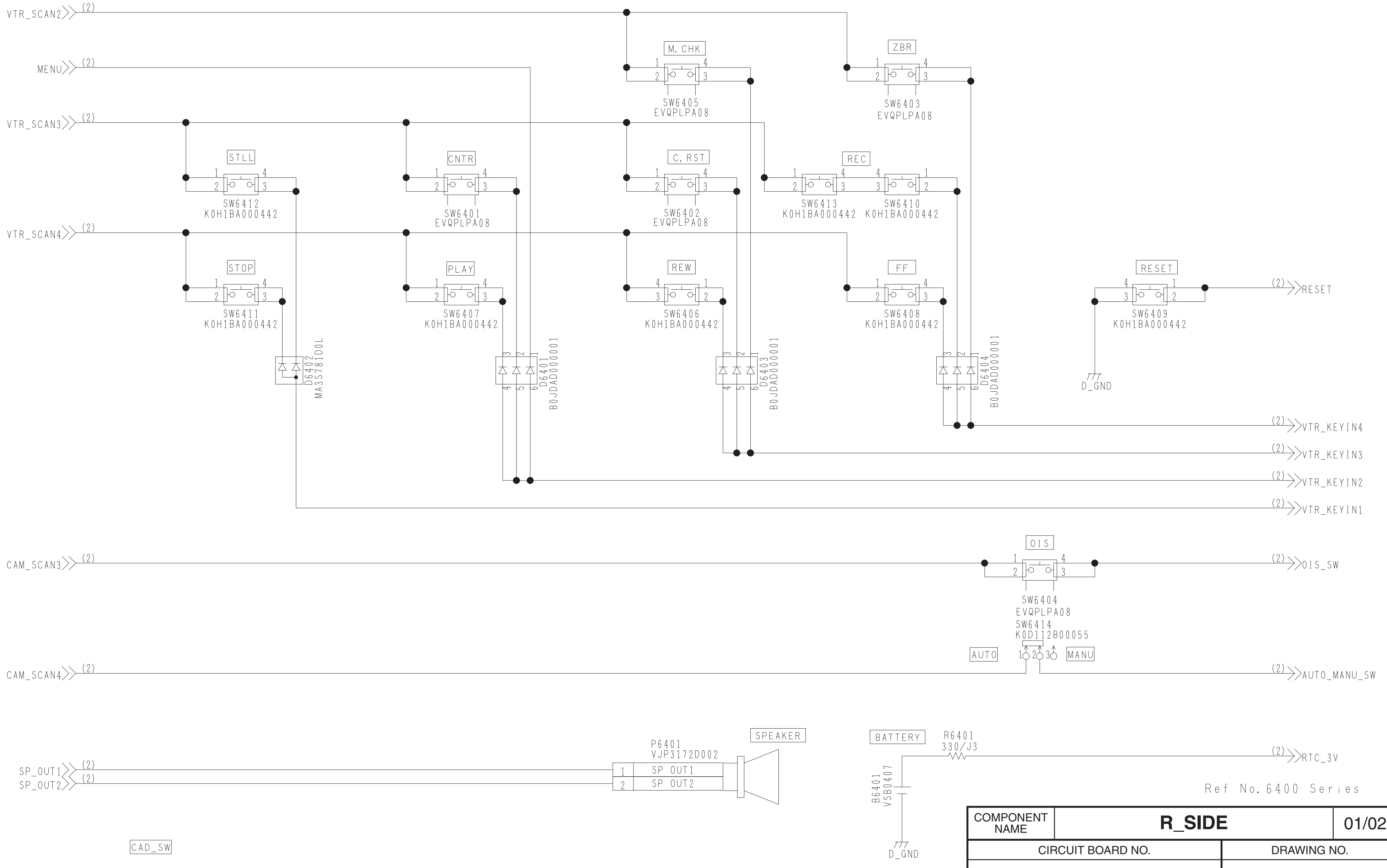
IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

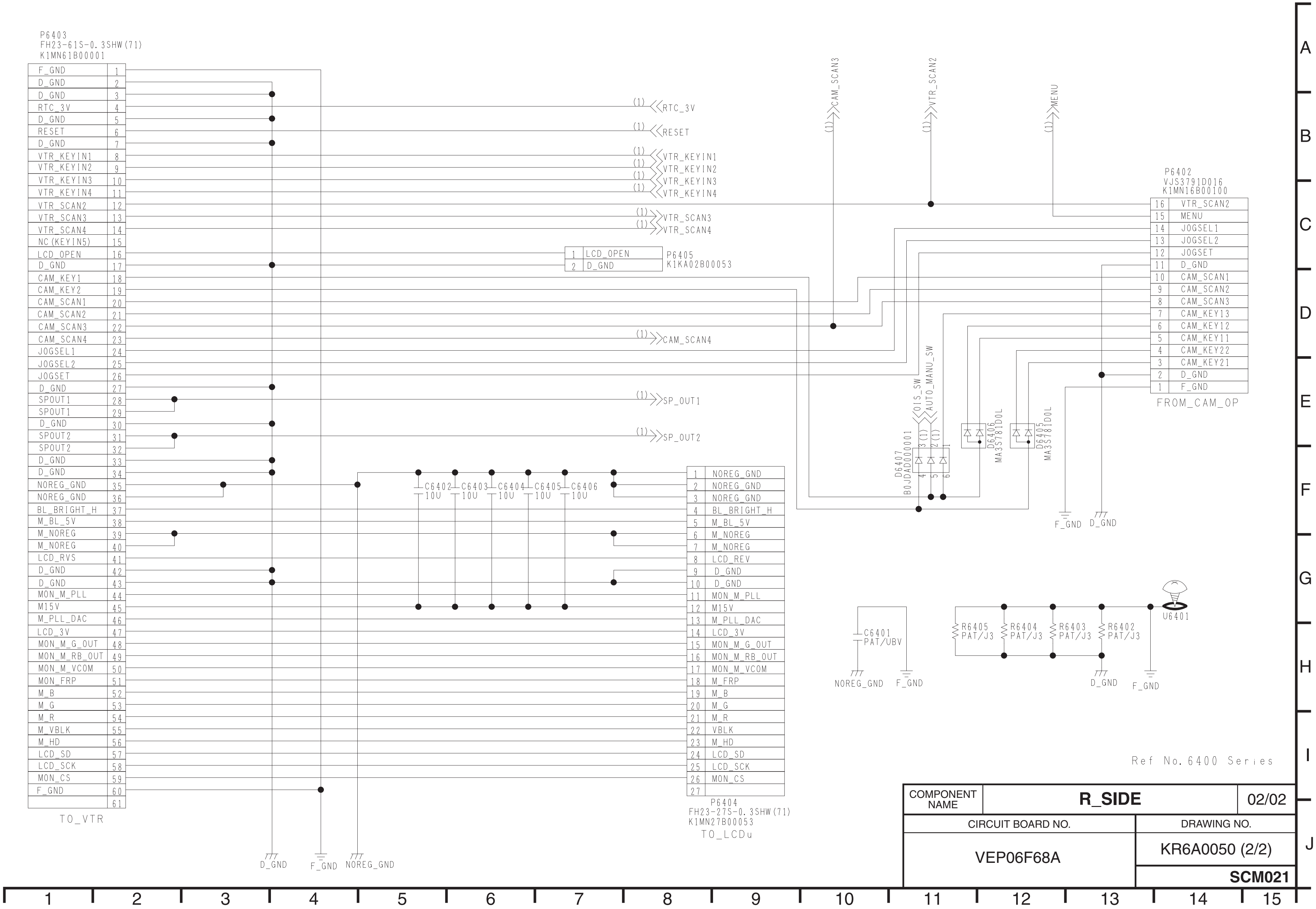
⚠ 警 告
⚠印の部品は安全上重要な部品です。
交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。

COMPONENT NAME	POWER	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP01952A		KR1A0057 (2/2)
		SCM019


VTR_SCAN2 (2)
MENU (2)
VTR_SCAN3 (2)
VTR_SCAN4 (2)
M. CHK
SW6405
EVQPLPA08
ZBR
SW6403
EVQPLPA08
STLL
SW6412
K0H1BA000442
CNTR
SW6401
EVQPLPA08
C. RST
SW6402
EVQPLPA08
REC
SW6413
K0H1BA000442
SW6410
K0H1BA000442
STOP
SW6411
K0H1BA000442
PLAY
SW6407
K0H1BA000442
REW
SW6406
K0H1BA000442
FF
SW6408
K0H1BA000442
RESET
SW6409
K0H1BA000442
(2) RESET
D6402
MA3S781D0L
D6401
B0JDAD000001
D6403
B0JDAD000001
D6404
B0JDAD000001
D_GND
(2) VTR_KEYIN4
(2) VTR_KEYIN3
(2) VTR_KEYIN2
(2) VTR_KEYIN1
CAM_SCAN3 (2)
OIS
SW6404
EVQPLPA08
(2) OIS_SW
SW6414
K0D112B00055
AUTO
MANU
CAM_SCAN4 (2)
(2) AUTO_MANU_SW
P6401
VJP3172D002
SPEAKER
SP_OUT1 (2)
SP_OUT2 (2)
1 SP OUT1
2 SP OUT2
BATTERY
R6401
330/J3
(2) RTC_3V
B6401
VSB0407
D_GND
CAD_SW

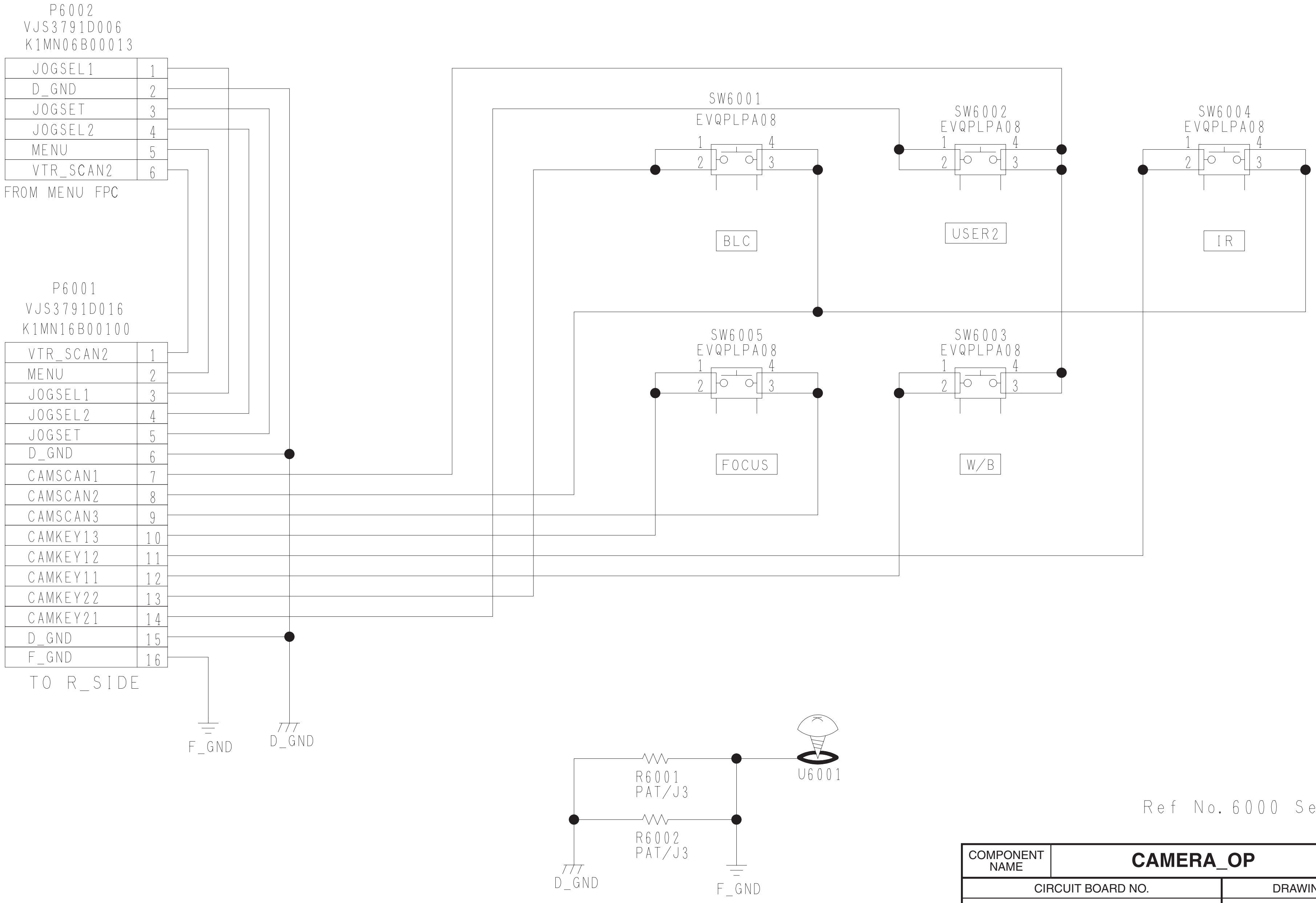
Ref No. 6400 Series

COMPONENT NAME	R_SIDE		01/02
CIRCUIT BOARD NO.		DRAWING NO.	
VEP06F68A		KR6A0050 (1/2)	
		SCM020	


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
P6403
FH23-61S-0.3SHW(71)
K1MN61B00001
1 F_GND
2 D_GND
3 D_GND
4 RTC_3V
5 D_GND
6 RESET
7 D_GND
8 VTR_KEYIN1
9 VTR_KEYIN2
10 VTR_KEYIN3
11 VTR_KEYIN4
12 VTR_SCAN2
13 VTR_SCAN3
14 VTR_SCAN4
15 NC(KEYIN5)
16 LCD_OPEN
17 D_GND
18 CAM_KEY1
19 CAM_KEY2
20 CAM_SCAN1
21 CAM_SCAN2
22 CAM_SCAN3
23 CAM_SCAN4
24 JOGSEL1
25 JOGSEL2
26 JOGSET
27 D_GND
28 SPOUT1
29 SPOUT1
30 D_GND
31 SPOUT2
32 SPOUT2
33 D_GND
34 D_GND
35 NOREG_GND
36 NOREG_GND
37 BL_BRIGHT_H
38 M_BL_5V
39 M_NOREG
40 M_NOREG
41 LCD_RVS
42 D_GND
43 D_GND
44 MON_M_PLL
45 M15V
46 M_PLL_DAC
47 LCD_3V
48 MON_M_G_OUT
49 MON_M_RB_OUT
50 MON_M_VCOM
51 MON_FRP
52 M_B
53 M_G
54 M_R
55 M_VBLK
56 M_HD
57 LCD_SD
58 LCD_SCK
59 MON_CS
60 F_GND
61
TO_VTR
(1) RTC_3V
(1) RESET
(1) VTR_KEYIN1
(1) VTR_KEYIN2
(1) VTR_KEYIN3
(1) VTR_KEYIN4
(1) VTR_SCAN3
(1) VTR_SCAN4
(1) CAM_SCAN4
(1) SP_OUT1
(1) SP_OUT2
(1) CAM_SCAN3
(1) VTR_SCAN2
(1) MENU
1 LCD_OPEN
2 D_GND
P6405
K1KA02B00053
C6402 10U
C6403 10U
C6404 10U
C6405 10U
C6406 10U
1 NOREG_GND
2 NOREG_GND
3 NOREG_GND
4 BL_BRIGHT_H
5 M_BL_5V
6 M_NOREG
7 M_NOREG
8 LCD_REV
9 D_GND
10 D_GND
11 MON_M_PLL
12 M15V
13 M_PLL_DAC
14 LCD_3V
15 MON_M_G_OUT
16 MON_M_RB_OUT
17 MON_M_VCOM
18 M_FRP
19 M_B
20 M_G
21 M_R
22 VBLK
23 M_HD
24 LCD_SD
25 LCD_SCK
26 MON_CS
27
P6404
FH23-27S-0.3SHW(71)
K1MN27B00053
TO_LCDu
D_GND
F_GND
NOREG_GND
P6402
VJS3791D016
K1MN16B00100
16 VTR_SCAN2
15 MENU
14 JOGSEL1
13 JOGSEL2
12 JOGSET
11 D_GND
10 CAM_SCAN1
9 CAM_SCAN2
8 CAM_SCAN3
7 CAM_KEY13
6 CAM_KEY12
5 CAM_KEY11
4 CAM_KEY22
3 CAM_KEY21
2 D_GND
1 F_GND
FROM_CAM_OP
OIS_SW
AUTO_MANU_SW
D6407
B0JDAD000001
3(1)
2(1)
1
4
5
6
D6406
MA3S781D0L
D6405
MA3S781D0L
F_GND
D_GND
C6401
PAT/UBV
NOREG_GND
F_GND
R6405 PAT/J3
R6404 PAT/J3
R6403 PAT/J3
R6402 PAT/J3
U6401
D_GND
F_GND

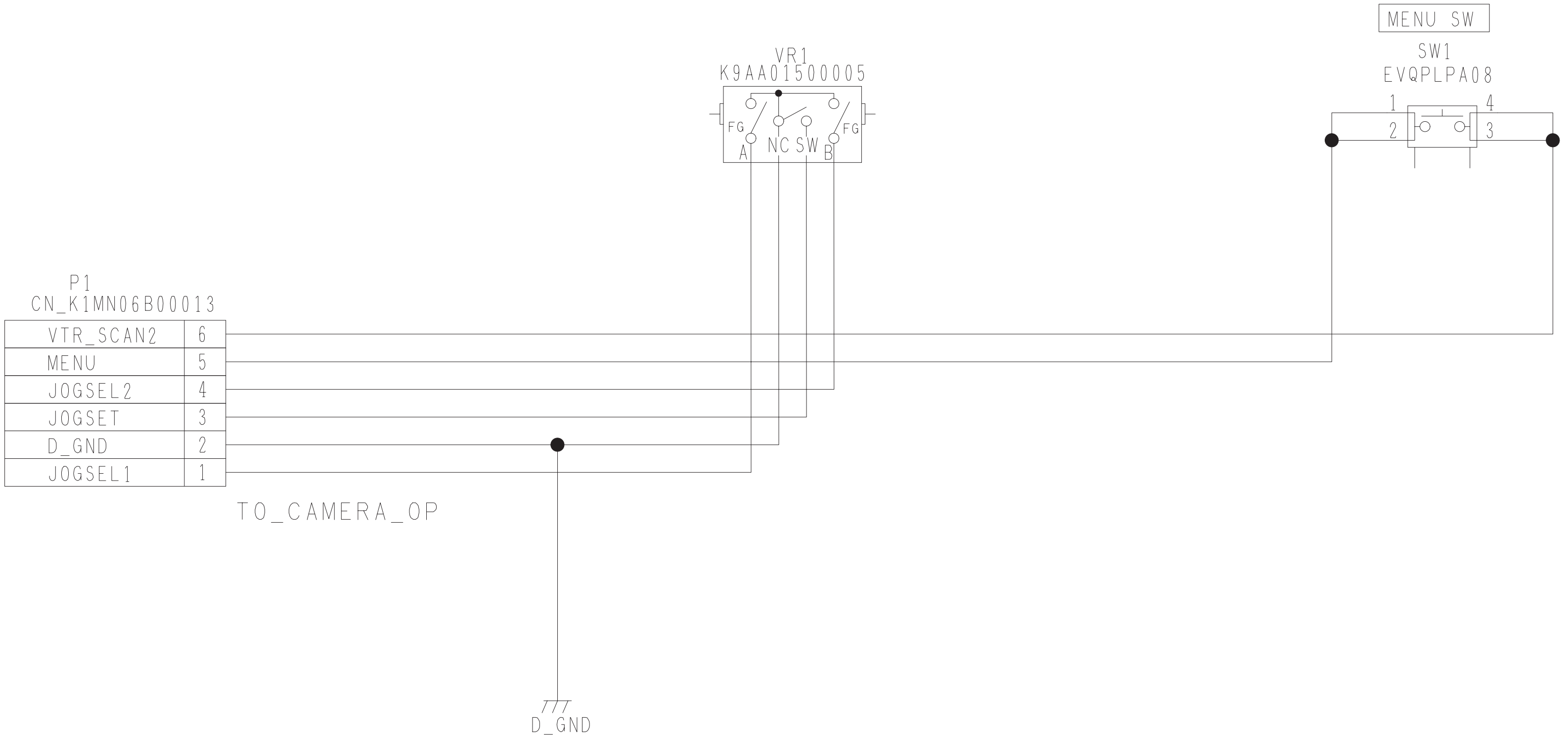
Ref No.6400 Series

COMPONENT NAME	R_SIDE	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F68A	KR6A0050 (2/2)	
	SCM021	


P6002
VJS3791D006
K1MN06B00013
JOGSEL1 1
D_GND 2
JOGSET 3
JOGSEL2 4
MENU 5
VTR_SCAN2 6
FROM MENU FPC
P6001
VJS3791D016
K1MN16B00100
VTR_SCAN2 1
MENU 2
JOGSEL1 3
JOGSEL2 4
JOGSET 5
D_GND 6
CAMSCAN1 7
CAMSCAN2 8
CAMSCAN3 9
CAMKEY13 10
CAMKEY12 11
CAMKEY11 12
CAMKEY22 13
CAMKEY21 14
D_GND 15
F_GND 16
TO R_SIDE
F_GND
D_GND
SW6001
EVQPLPA08
BLC
SW6002
EVQPLPA08
USER2
SW6004
EVQPLPA08
IR
SW6005
EVQPLPA08
FOCUS
SW6003
EVQPLPA08
W/B
1
2
3
4
R6001
PAT/J3
R6002
PAT/J3
U6001
D_GND
F_GND

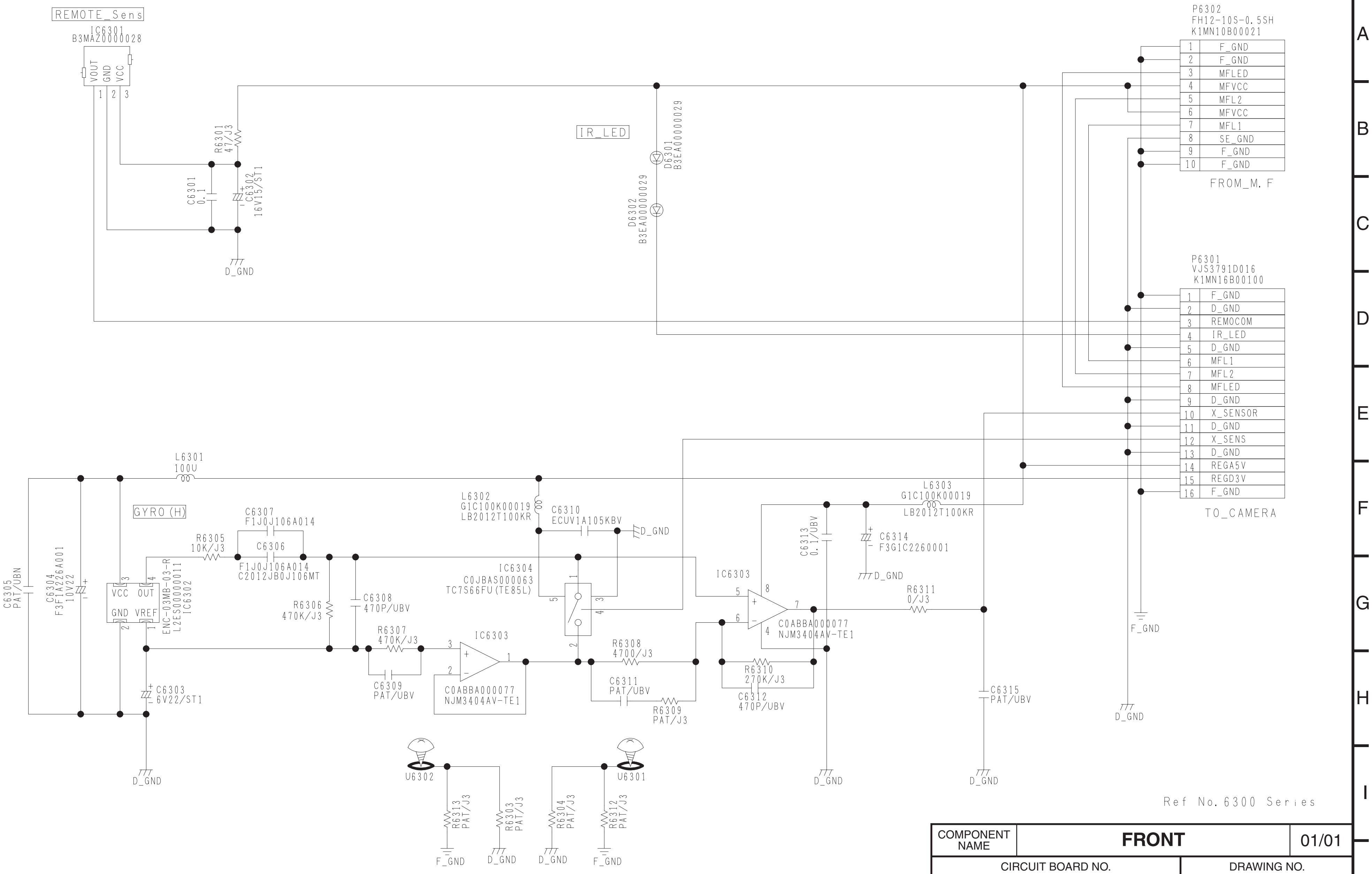
Ref No.6000 Series

COMPONENT NAME	**CAMERA_OP**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F64A	KR6A0046 (1/1)	
	SCM022	


MENU SW
SW1
EVQPLPA08
1
4
2
3
VR1
K9AA01500005
FG
FG
A
NC
SW
B
P1
CN_K1MN06B00013
VTR_SCAN2
6
MENU
5
JOGSEL2
4
JOGSET
3
D_GND
2
JOGSEL1
1
TO_CAMERA_OP
D_GND

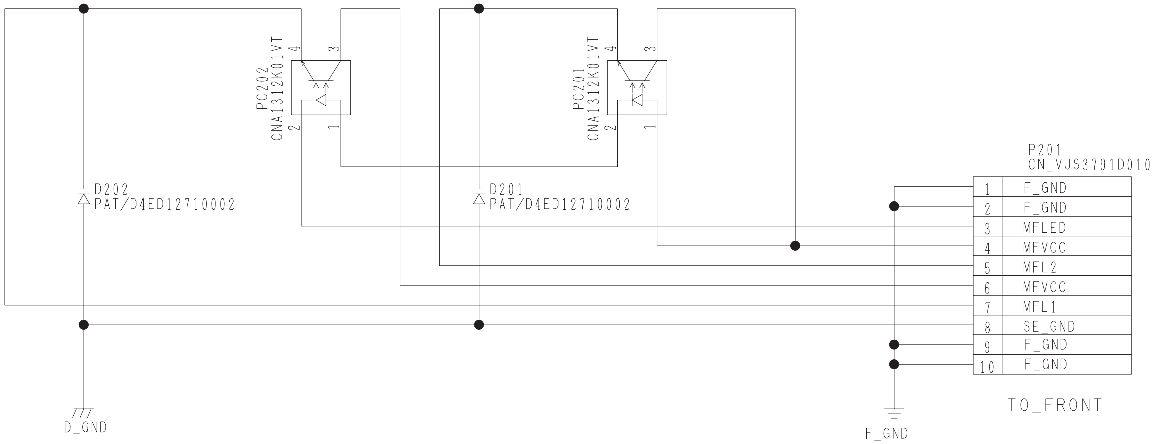
Ref No.000 Series

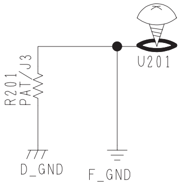
COMPONENT NAME	**MENU FPC**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001G2A	KR0A0148 (1/1) **SCM023**	


REMOTE_Sens
IC6301
B3MAZ0000028
VOUT
GND
VCC
1 2 3
R6301
47/J3
C6301
0.1
C6302
16V15/ST1
D_GND
IR_LED
D6301
B3EA00000029
D6302
B3EA00000029
P6302
FH12-10S-0.5SH
K1MN10B00021
1 F_GND
2 F_GND
3 MFLED
4 MFVCC
5 MFL2
6 MFVCC
7 MFL1
8 SE_GND
9 F_GND
10 F_GND
FROM_M.F
P6301
VJS3791D016
K1MN16B00100
1 F_GND
2 D_GND
3 REMOCOM
4 IR_LED
5 D_GND
6 MFL1
7 MFL2
8 MFLED
9 D_GND
10 X_SENSOR
11 D_GND
12 X_SENS
13 D_GND
14 REGA5V
15 REGD3V
16 F_GND
TO_CAMERA
L6301
100U
GYRO(H)
C6305
PAT/UBN
C6304
F3F1A226A001
10V22
VCC
OUT
GND
VREF
ENC-03MB-03-R
L2ES00000011
IC6302
C6303
6V22/ST1
D_GND
R6305
10K/J3
C6307
F1J0J106A014
C6306
F1J0J106A014
C2012JB0J106MT
R6306
470K/J3
C6308
470P/UBV
R6307
470K/J3
C6309
PAT/UBV
IC6303
C0ABBA000077
NJM3404AV-TE1
L6302
G1C100K00019
LB2012T100KR
C6310
ECUV1A105KBV
D_GND
IC6304
C0JBAS000063
TC7S66FU(TE85L)
R6308
4700/J3
C6311
PAT/UBV
R6309
PAT/J3
IC6303
C0ABBA000077
NJM3404AV-TE1
R6310
270K/J3
C6312
470P/UBV
L6303
G1C100K00019
LB2012T100KR
C6313
0.1/UBV
C6314
F3G1C2260001
D_GND
R6311
0/J3
C6315
PAT/UBV
F_GND
D_GND
D_GND
D_GND
U6302
U6301
R6313
PAT/J3
R6303
PAT/J3
R6304
PAT/J3
R6312
PAT/J3
F_GND
D_GND
D_GND
F_GND

Ref No.6300 Series

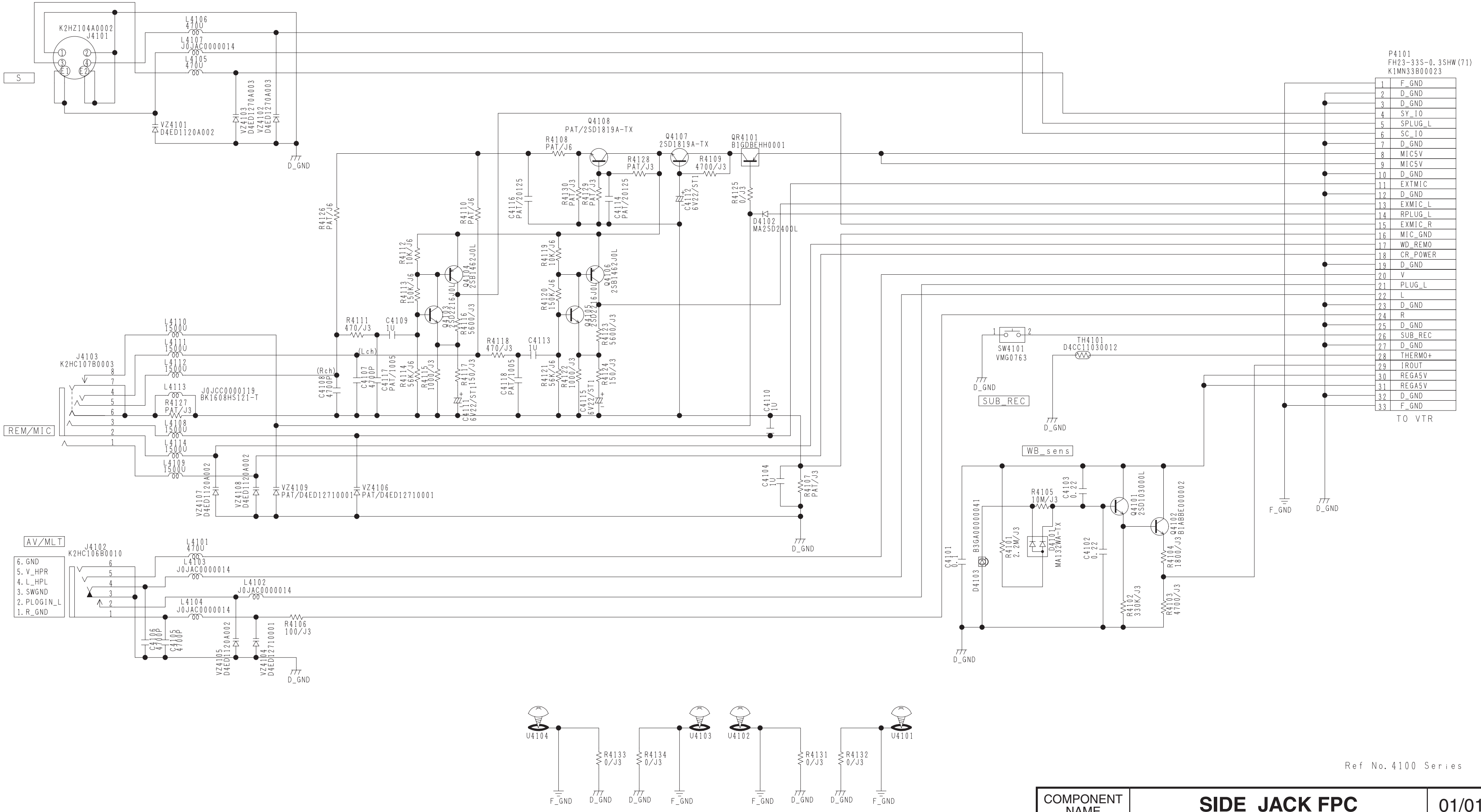
COMPONENT NAME	FRONT	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F67A	KR6A0049 (1/1)	
	SCM024	


PC202
CNA1312K01VT
4
3
2
1
PC201
CNA1312K01VT
4
3
2
1
D202
PAT/D4ED12710002
D201
PAT/D4ED12710002
D_GND
F_GND
P201
CN_VJS3791D010
1 F_GND
2 F_GND
3 MFLED
4 MFVCC
5 MFL2
6 MFVCC
7 MFL1
8 SE_GND
9 F_GND
10 F_GND
TO_FRONT


U201
R201
PAT_J3
D_GND
F_GND

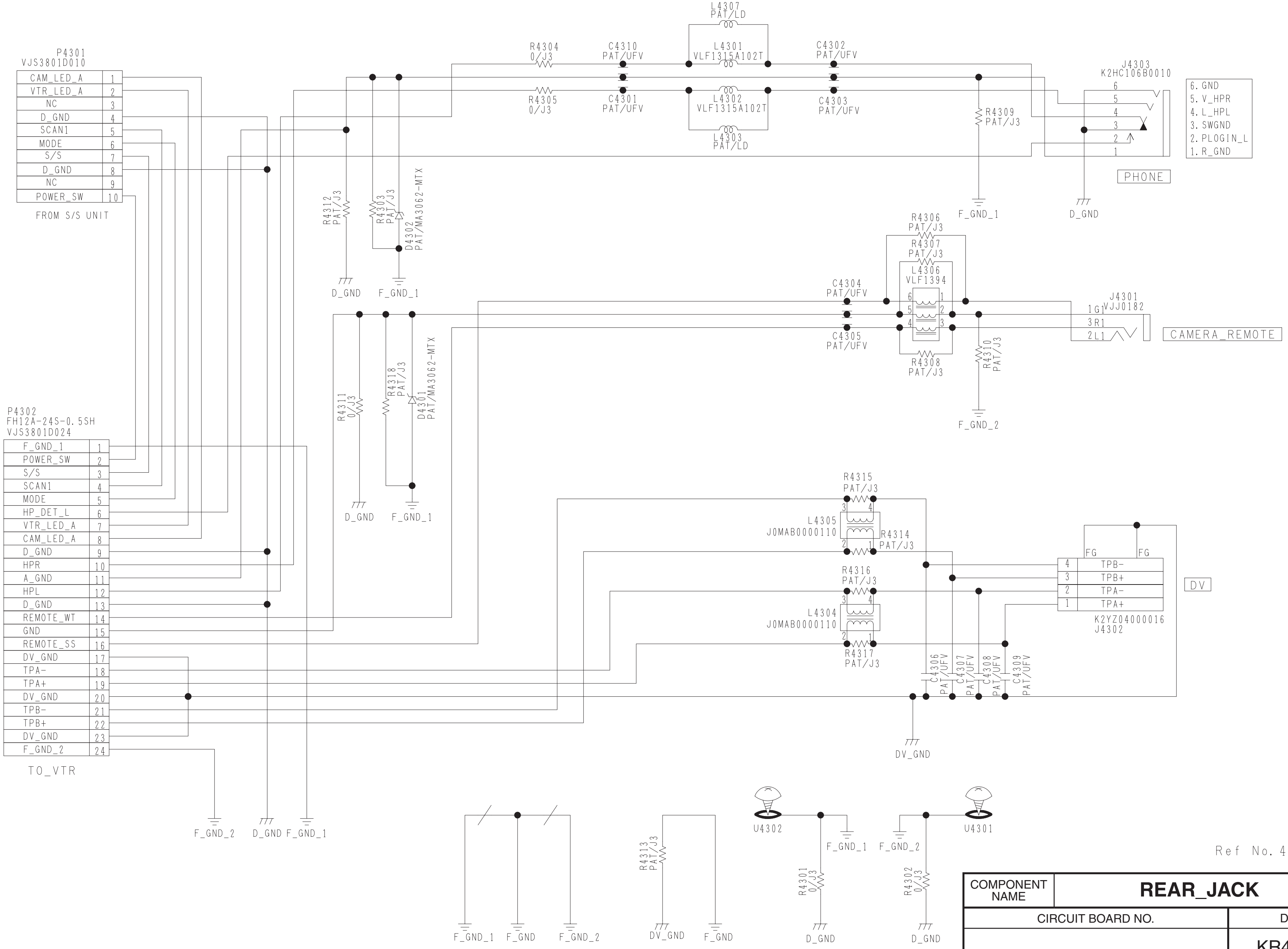
Ref No. 200 Series

COMPONENT NAME	MF FPC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E2A	KR0A0072 (1/1) **SCM025**	


S
K2HZ104A0002
J4101
L4106
470U
L4107
J0JAC0000014
L4105
470U
VZ4101
D4ED1120A002
VZ4103
D4ED1270A003
VZ4102
D4ED1270A003
D_GND
Q4108
PAT/2SD1819A-TX
R4108
PAT/J6
Q4107
2SD1819A-TX
QR4101
B1GDBEHH0001
R4128
PAT/J3
R4109
4700/J3
C4116
PAT/20125
R4130
PAT/J3
R4129
PAT/J3
C4114
PAT/20125
C4112
6V22/ST1
R4125
0/J3
D4102
MA2SD2400L
R4126
PAT/J6
R4110
PAT/J6
R4112
10K/J6
R4113
150K/J6
Q4104
2SB1462J0L
Q4103
2SD2216J0L
R4116
5600/J3
R4119
10K/J6
R4120
150K/J6
Q4106
2SB1462J0L
Q4105
2SD2216J0L
R4123
5600/J3
R4111
470/J3
C4109
1U
R4118
470/J3
C4113
1U
(Lch)
(Rch)
C4108
4700P
C4107
4700P
C4117
PAT/1005
R4114
56K/J6
R4115
1000/J3
R4117
150/J3
C4111
6V22/ST1
C4118
PAT/1005
R4121
56K/J6
R4122
1000/J3
C4115
6V22/ST1
R4124
150/J3
C4110
1U
J4103
K2HC107B0003
REM/MIC
L4110
1500U
L4111
1500U
L4112
1500U
L4113
J0JCC0000119
BK1608HS121-T
R4127
PAT/J3
L4108
1500U
L4114
1500U
L4109
1500U
VZ4107
D4ED1120A002
VZ4108
D4ED1120A002
VZ4109
PAT/D4ED12710001
VZ4106
PAT/D4ED12710001
C4104
1U
R4107
PAT/J3
D_GND
AV/MLT
J4102
K2HC106B0010
6. GND
5. V_HPR
4. L_HPL
3. SWGND
2. PLOGIN_L
1. R_GND
L4101
470U
L4103
J0JAC0000014
L4102
J0JAC0000014
L4104
J0JAC0000014
C4106
4700P
C4105
4700P
VZ4105
D4ED1120A002
VZ4104
D4ED12710001
R4106
100/J3
D_GND
SW4101
VMG0763
D_GND
SUB_REC
TH4101
D4CC11030012
D_GND
WB_sens
R4105
10M/J3
C4103
0.22
Q4101
2SD1030000L
Q4102
B1ABBE000002
C4101
0.1
D4103
B3GA00000041
R4101
2.2M/J3
D4101
MA132WA-TX
C4102
0.22
R4104
1800/J3
R4102
330K/J3
R4103
4700/J3
D_GND
F_GND
D_GND
P4101
FH23-33S-0.3SHW(71)
K1MN33B00023
1 F_GND
2 D_GND
3 D_GND
4 SY_IO
5 SPLUG_L
6 SC_IO
7 D_GND
8 MIC5V
9 MIC5V
10 D_GND
11 EXTMIC
12 D_GND
13 EXMIC_L
14 RPLUG_L
15 EXMIC_R
16 MIC_GND
17 WD_REMO
18 CR_POWER
19 D_GND
20 V
21 PLUG_L
22 L
23 D_GND
24 R
25 D_GND
26 SUB_REC
27 D_GND
28 THERMO+
29 IROUT
30 REGA5V
31 REGA5V
32 D_GND
33 F_GND
TO VTR
U4104
R4133
0/J3
R4134
0/J3
U4103
U4102
R4131
0/J3
R4132
0/J3
U4101
F_GND
D_GND

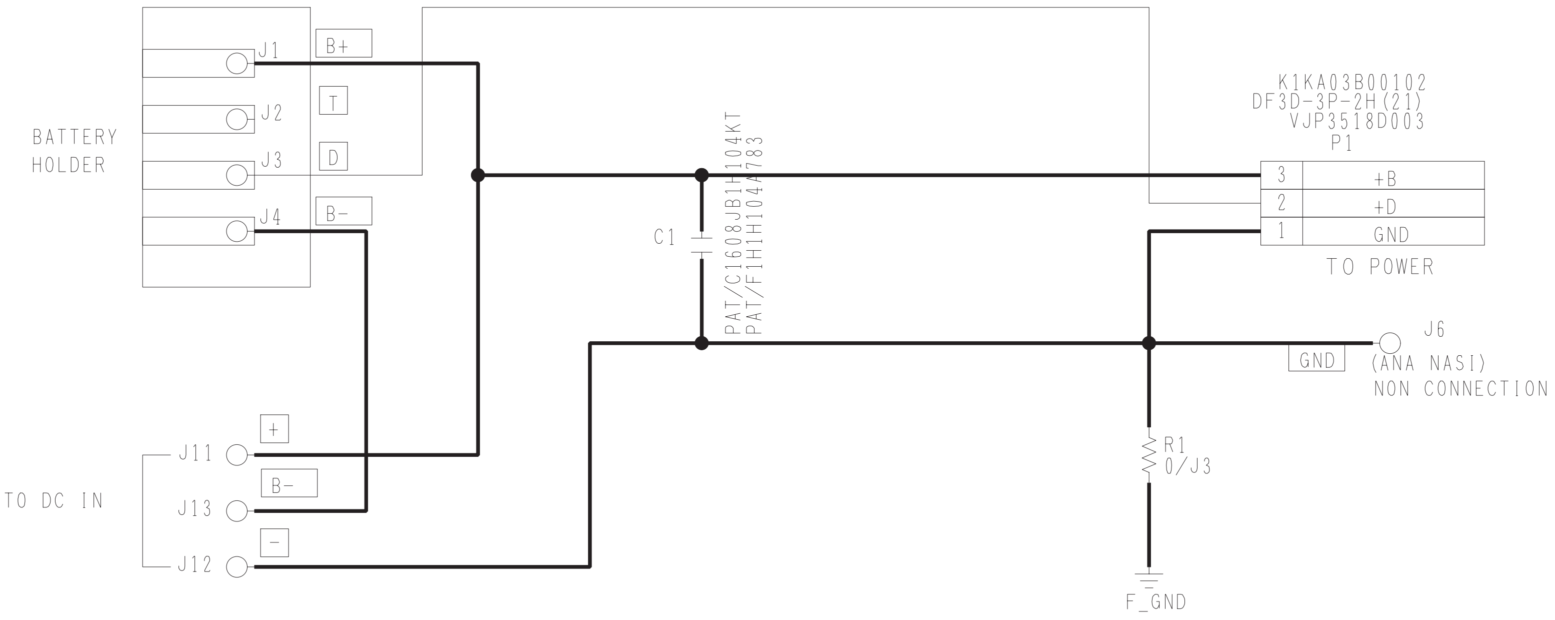
Ref No. 4100 Series

COMPONENT NAME	SIDE_JACK FPC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04861A	KR4A0028 (1/1)	
	SCM026	


P4301
VJS3801D010
CAM_LED_A 1
VTR_LED_A 2
NC 3
D_GND 4
SCAN1 5
MODE 6
S/S 7
D_GND 8
NC 9
POWER_SW 10
FROM S/S UNIT
P4302
FH12A-24S-0.5SH
VJS3801D024
F_GND_1 1
POWER_SW 2
S/S 3
SCAN1 4
MODE 5
HP_DET_L 6
VTR_LED_A 7
CAM_LED_A 8
D_GND 9
HPR 10
A_GND 11
HPL 12
D_GND 13
REMOTE_WT 14
GND 15
REMOTE_SS 16
DV_GND 17
TPA- 18
TPA+ 19
DV_GND 20
TPB- 21
TPB+ 22
DV_GND 23
F_GND_2 24
TO_VTR
L4307 PAT/LD
R4304 0/J3
C4310 PAT/UFV
L4301 VLF1315A102T
C4302 PAT/UFV
R4305 0/J3
C4301 PAT/UFV
L4302 VLF1315A102T
C4303 PAT/UFV
L4303 PAT/LD
R4309 PAT/J3
J4303 K2HC106B0010
6. GND
5. V_HPR
4. L_HPL
3. SWGND
2. PLOGIN_L
1. R_GND
PHONE
R4312 PAT/J3
R4303 PAT/J3
D4302 PAT/MA3062-MTX
D_GND
F_GND_1
R4306 PAT/J3
R4307 PAT/J3
L4306 VLF1394
C4304 PAT/UFV
C4305 PAT/UFV
R4308 PAT/J3
R4310 PAT/J3
J4301 VJJ0182
1G
3R
2L
CAMERA_REMOTE
F_GND_2
R4311 0/J3
R4318 PAT/J3
D4301 PAT/MA3062-MTX
R4315 PAT/J3
L4305 J0MAB0000110
R4314 PAT/J3
R4316 PAT/J3
L4304 J0MAB0000110
R4317 PAT/J3
C4306 PAT/UFV
C4307 PAT/UFV
C4308 PAT/UFV
C4309 PAT/UFV
FG
TPB-
TPB+
TPA-
TPA+
K2YZ04000016
J4302
DV
DV_GND
F_GND_2
D_GND
F_GND_1
R4313 PAT/J3
F_GND
U4302
U4301
R4301 0/J3
R4302 0/J3

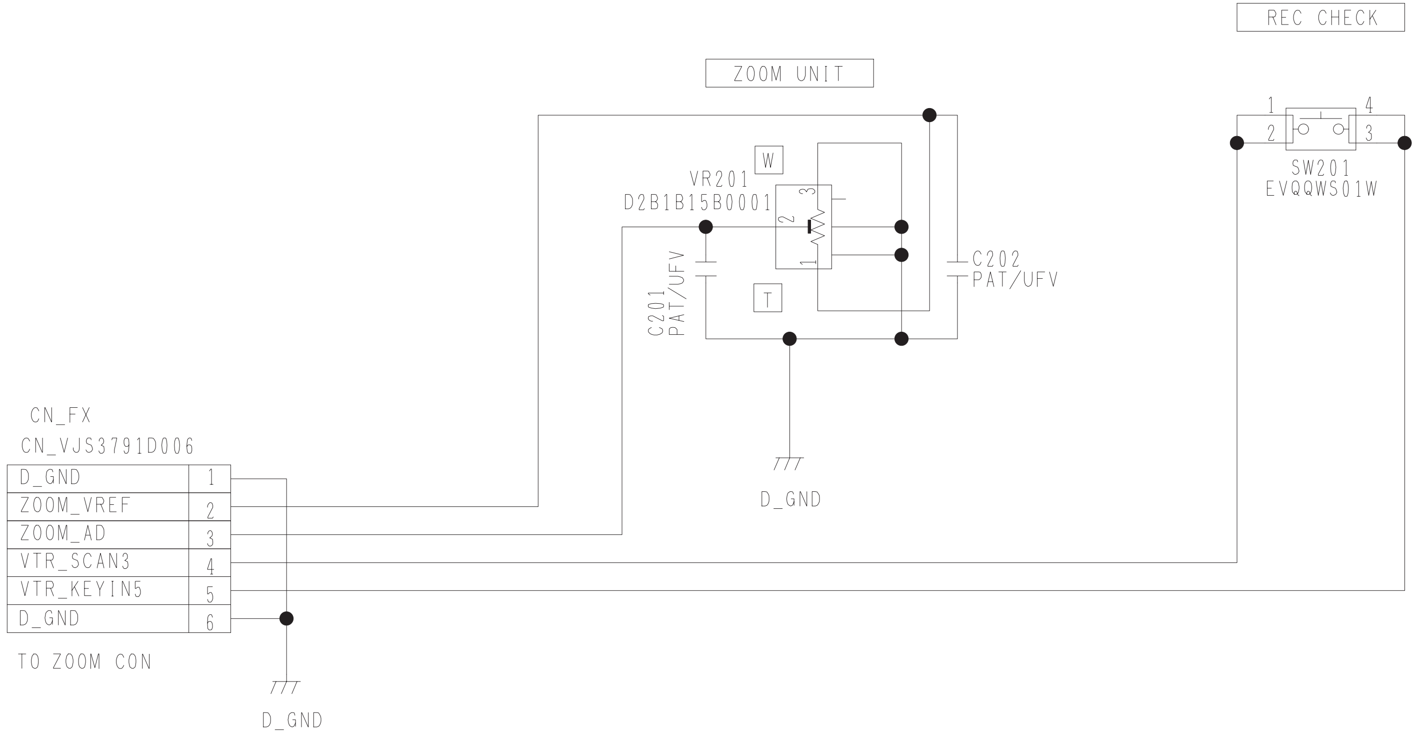
Ref No. 4300 Series

COMPONENT NAME	**REAR_JACK**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP04863A		KR4A0030 (1/1)
		SCM027


BATTERY
HOLDER
J1
J2
J3
J4
B+
T
D
B-
C1
PAT/C1608JB1H104KT
PAT/F1H1H104A783
K1KA03B00102
DF3D-3P-2H(21)
VJP3518D003
P1
3 +B
2 +D
1 GND
TO POWER
J6
GND
(ANA NASI)
NON CONNECTION
R1
0/J3
F_GND
TO DC IN
J11
J13
J12
+
B-
-

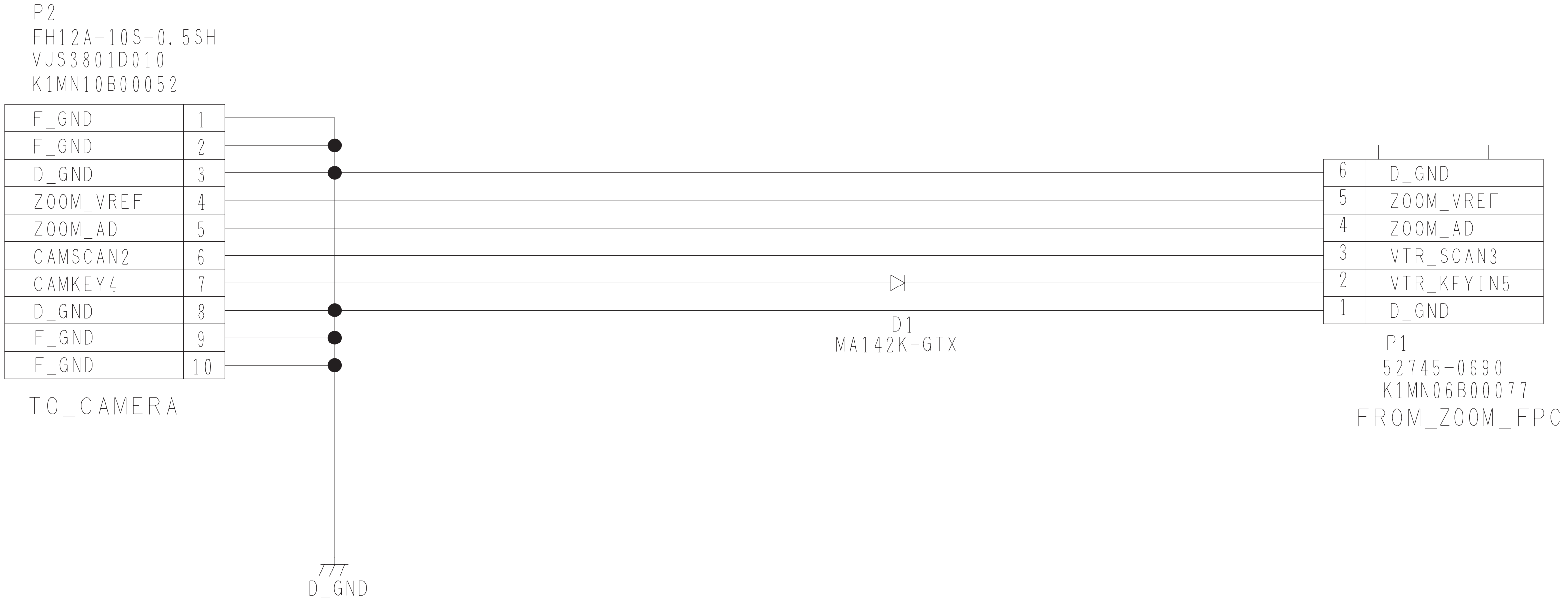
PAT=PATTERN ONLY
Ref No. Series.

COMPONENT NAME	BATTERY		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP01953A		KR1A0047 (1/1)	
		SCM028	


REC CHECK
ZOOM UNIT
1
4
2
3
SW201
EVQQWS01W
W
VR201
D2B1B15B0001
3
2
1
C202
PAT/UFV
C201
PAT/UFV
T
D_GND
CN_FX
CN_VJS3791D006
D_GND 1
ZOOM_VREF 2
ZOOM_AD 3
VTR_SCAN3 4
VTR_KEYIN5 5
D_GND 6
TO ZOOM CON
D_GND

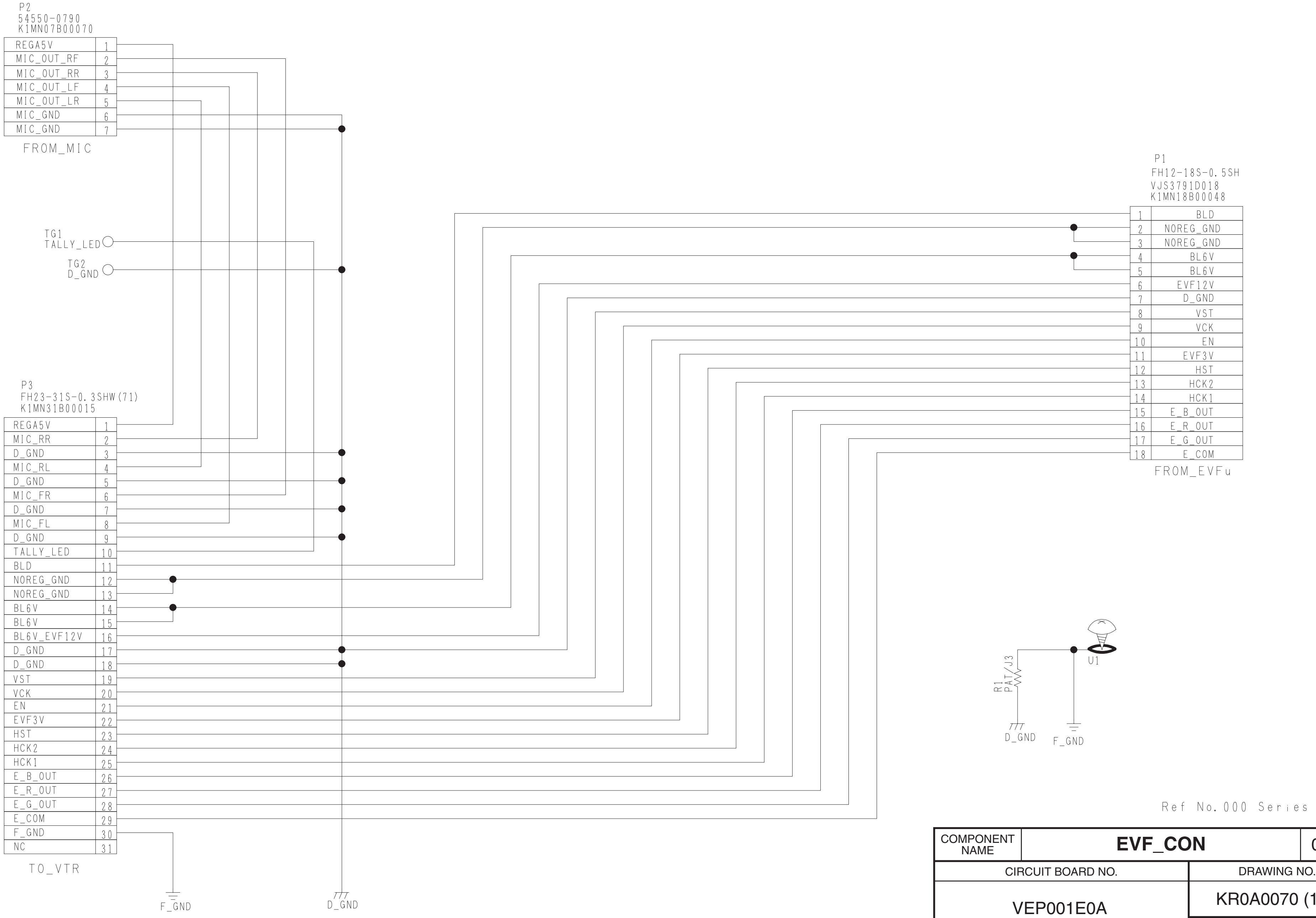
Ref No. 201-250 Series.

COMPONENT NAME	**ZOOM FPC**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F66A	KR6A0090 (1/1)	
	SCM029	


P2
FH12A-10S-0.5SH
VJS3801D010
K1MN10B00052
F_GND 1
F_GND 2
D_GND 3
ZOOM_VREF 4
ZOOM_AD 5
CAMSCAN2 6
CAMKEY4 7
D_GND 8
F_GND 9
F_GND 10
TO_CAMERA
D_GND
D1
MA142K-GTX
6 D_GND
5 ZOOM_VREF
4 ZOOM_AD
3 VTR_SCAN3
2 VTR_KEYIN5
1 D_GND
P1
52745-0690
K1MN06B00077
FROM_ZOOM_FPC

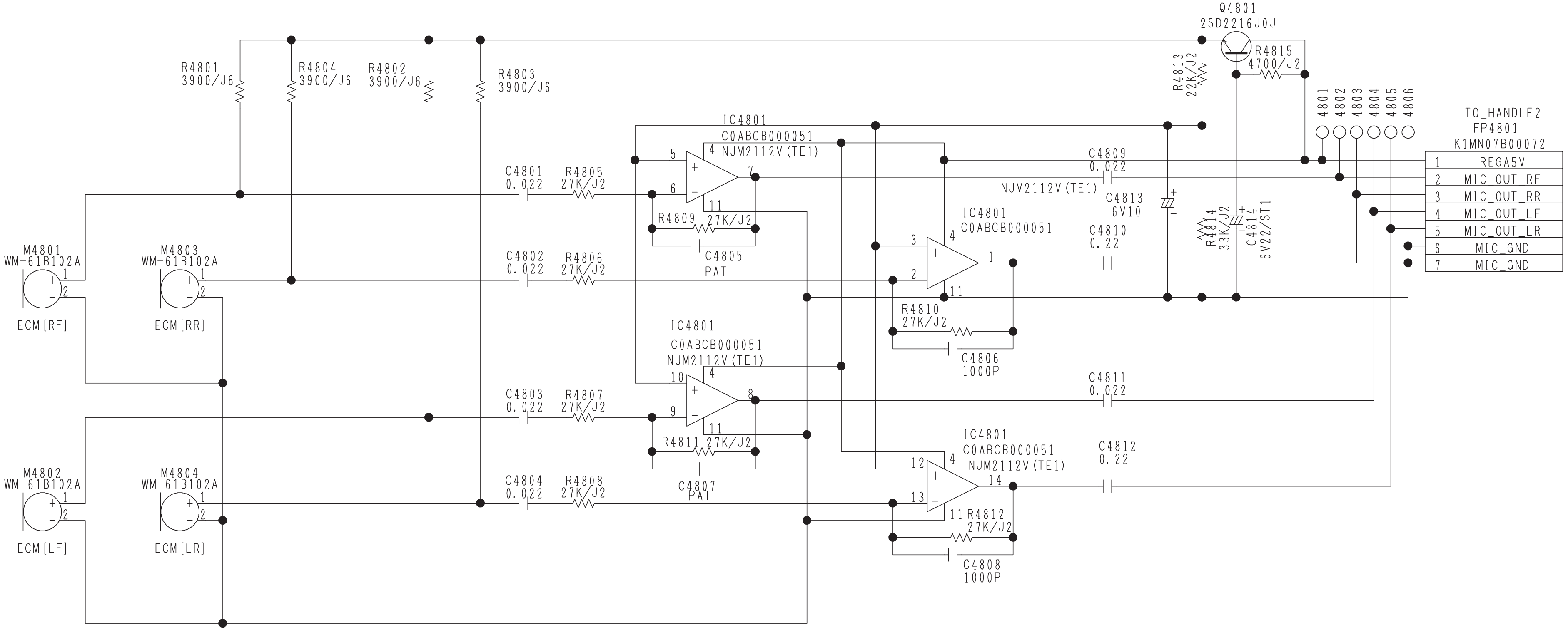
Ref No.000 Series

COMPONENT NAME	ZOOM_CON	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E3A	KR0A0114 (1/1)	
	SCM030	


P2
54550-0790
K1MN07B00070
REGA5V 1
MIC_OUT_RF 2
MIC_OUT_RR 3
MIC_OUT_LF 4
MIC_OUT_LR 5
MIC_GND 6
MIC_GND 7
FROM_MIC
TG1
TALLY_LED
TG2
D_GND
P1
FH12-18S-0.5SH
VJS3791D018
K1MN18B00048
1 BLD
2 NOREG_GND
3 NOREG_GND
4 BL6V
5 BL6V
6 EVF12V
7 D_GND
8 VST
9 VCK
10 EN
11 EVF3V
12 HST
13 HCK2
14 HCK1
15 E_B_OUT
16 E_R_OUT
17 E_G_OUT
18 E_COM
FROM_EVFu
P3
FH23-31S-0.3SHW(71)
K1MN31B00015
REGA5V 1
MIC_RR 2
D_GND 3
MIC_RL 4
D_GND 5
MIC_FR 6
D_GND 7
MIC_FL 8
D_GND 9
TALLY_LED 10
BLD 11
NOREG_GND 12
NOREG_GND 13
BL6V 14
BL6V 15
BL6V_EVF12V 16
D_GND 17
D_GND 18
VST 19
VCK 20
EN 21
EVF3V 22
HST 23
HCK2 24
HCK1 25
E_B_OUT 26
E_R_OUT 27
E_G_OUT 28
E_COM 29
F_GND 30
NC 31
TO_VTR
F_GND
D_GND
R1
PAT/J3
U1
D_GND
F_GND

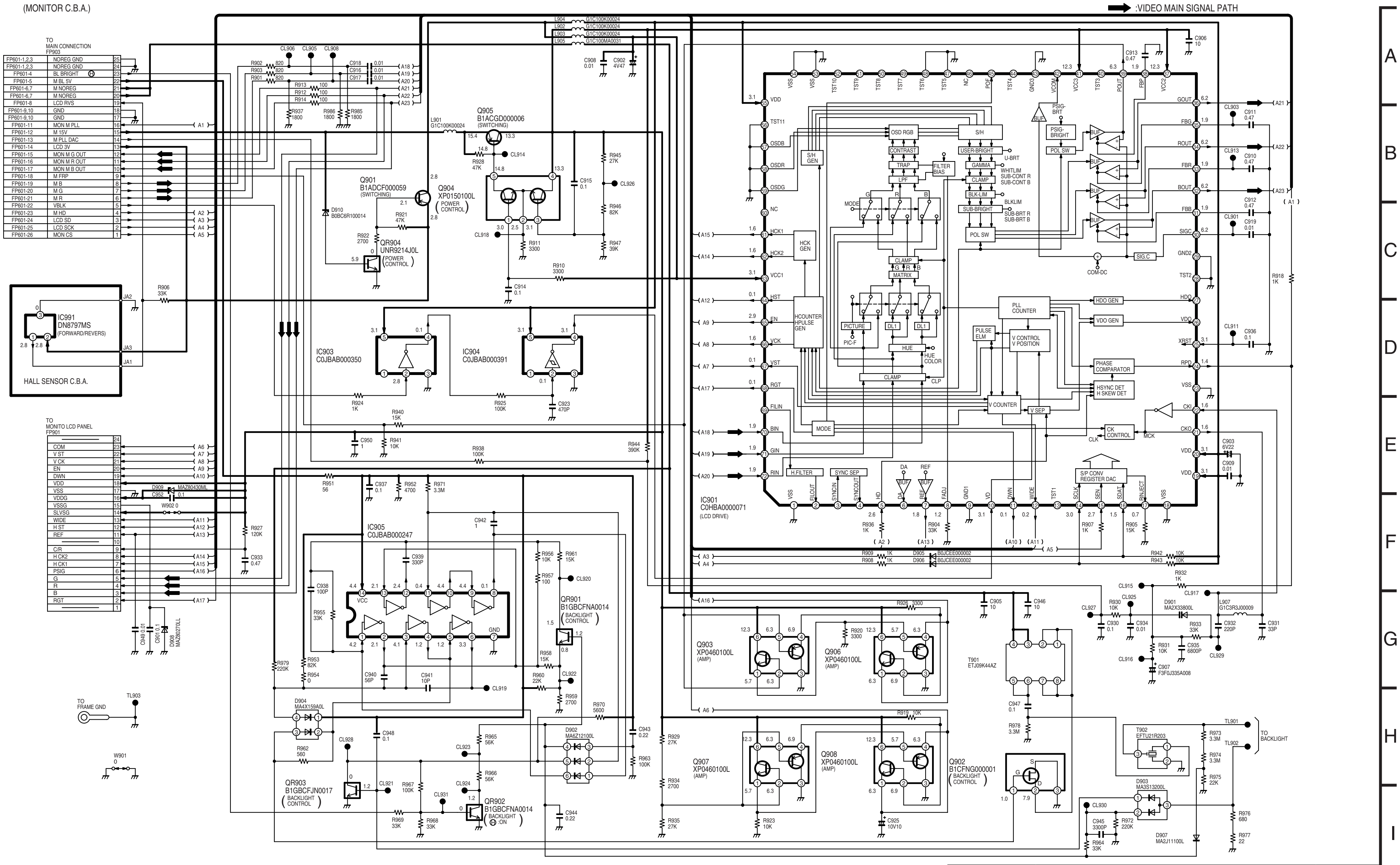
Ref No.000 Series

COMPONENT NAME	EVF_CON	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E0A	KR0A0070 (1/1)	
	SCM031	

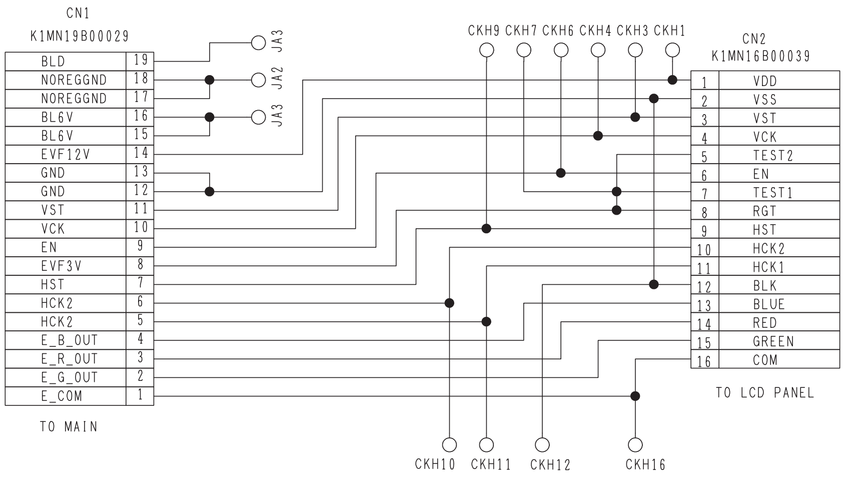

Q4801
2SD2216J0J
R4815
4700/J2
R4813
22K/J2
R4801
3900/J6
R4804
3900/J6
R4802
3900/J6
R4803
3900/J6
IC4801
C0ABCB000051
4 NJM2112V(TE1)
5
6
7
11
C4801
0.022
R4805
27K/J2
R4809
27K/J2
C4805
PAT
C4809
0.022
NJM2112V(TE1)
C4813
6V10
4801
4802
4803
4804
4805
4806
TO_HANDLE2
FP4801
K1MN07B00072
1 REGA5V
2 MIC_OUT_RF
3 MIC_OUT_RR
4 MIC_OUT_LF
5 MIC_OUT_LR
6 MIC_GND
7 MIC_GND
IC4801
C0ABCB000051
3
4
1
2
11
C4810
0.22
R4814
33K/J2
C4814
6V22/ST1
M4801
WM-61B102A
ECM[RF]
M4803
WM-61B102A
ECM[RR]
C4802
0.022
R4806
27K/J2
R4810
27K/J2
C4806
1000P
IC4801
C0ABCB000051
NJM2112V(TE1)
10
9
8
11
C4803
0.022
R4807
27K/J2
R4811
27K/J2
C4807
PAT
C4811
0.022
IC4801
C0ABCB000051
NJM2112V(TE1)
12
13
14
11
C4812
0.22
R4812
27K/J2
C4808
1000P
M4802
WM-61B102A
ECM[LF]
M4804
WM-61B102A
ECM[LR]
C4804
0.022
R4808
27K/J2

Ref No.4800 Series.

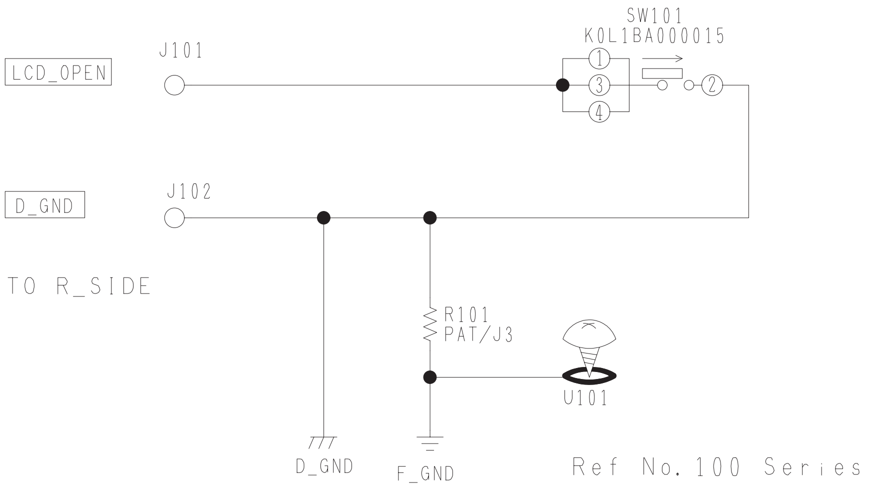
COMPONENT NAME	MIC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04828A	KR4L33 (1/1)	
	SCM032	


(MONITOR C.B.A.)
:VIDEO MAIN SIGNAL PATH
TO MAIN CONNECTION FP903
TO MONITO LCD PANEL FP901
HALL SENSOR C.B.A.
IC991 DN8797MS (FORWARD/REVERS)
Q901 B1ADCF000059 (SWITCHING)
Q904 XP0150100L (POWER CONTROL)
Q905 B1ACGD000006 (SWITCHING)
QR904 UNR9214J0L (POWER CONTROL)
IC903 C0JBAB000350
IC904 C0JBAB000391
IC905 C0JBAB000247
IC901 C0HBA0000071 (LCD DRIVE)
QR901 B1GBCFNA0014 (BACKLIGHT CONTROL)
QR902 B1GBCFNA0014 (BACKLIGHT :ON)
QR903 B1GBCFJN0017 (BACKLIGHT CONTROL)
Q903 XP0460100L (AMP)
Q906 XP0460100L (AMP)
Q907 XP0460100L (AMP)
Q908 XP0460100L (AMP)
Q902 B1CFNG000001 (BACKLIGHT CONTROL)
T901 ETJ09K44AZ
T902 EFTU21R203
TO FRAME GND
TO BACKLIGHT
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

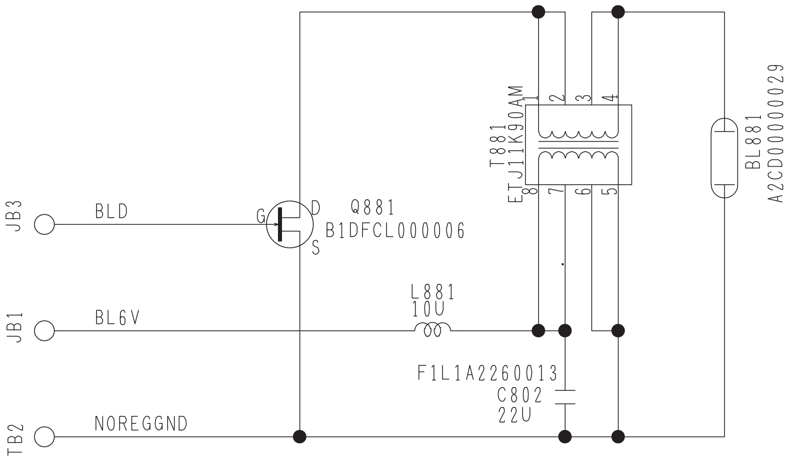
COMPONENT NAME	MONITOR	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP26257B	(1/1)	
	SCM033	


CN1
K1MN19B00029
BLD 19
NOREGGND 18
NOREGGND 17
BL6V 16
BL6V 15
EVF12V 14
GND 13
GND 12
VST 11
VCK 10
EN 9
EVF3V 8
HST 7
HCK2 6
HCK2 5
E_B_OUT 4
E_R_OUT 3
E_G_OUT 2
E_COM 1
TO MAIN
JA3
JA2
JA3
CKH9 CKH7 CKH6 CKH4 CKH3 CKH1
CN2
K1MN16B00039
1 VDD
2 VSS
3 VST
4 VCK
5 TEST2
6 EN
7 TEST1
8 RGT
9 HST
10 HCK2
11 HCK1
12 BLK
13 BLUE
14 RED
15 GREEN
16 COM
TO LCD PANEL
CKH10 CKH11 CKH12 CKH16

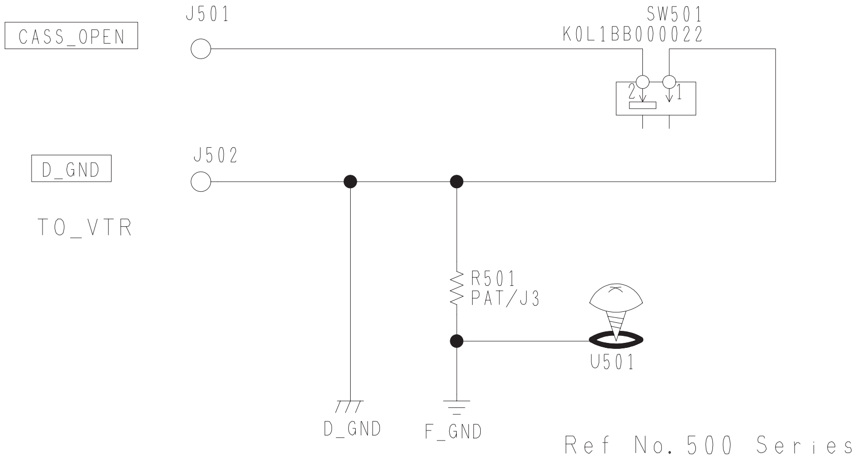
COMPONENT NAME	**EVF_A**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28272B	KR8840 (1/1)	
	SCM034	


LCD_OPEN
J101
SW101
K0L1BA000015
①
③
④
②
D_GND
J102
TO R_SIDE
R101
PAT/J3
U101
D_GND
F_GND
Ref No.100 Series

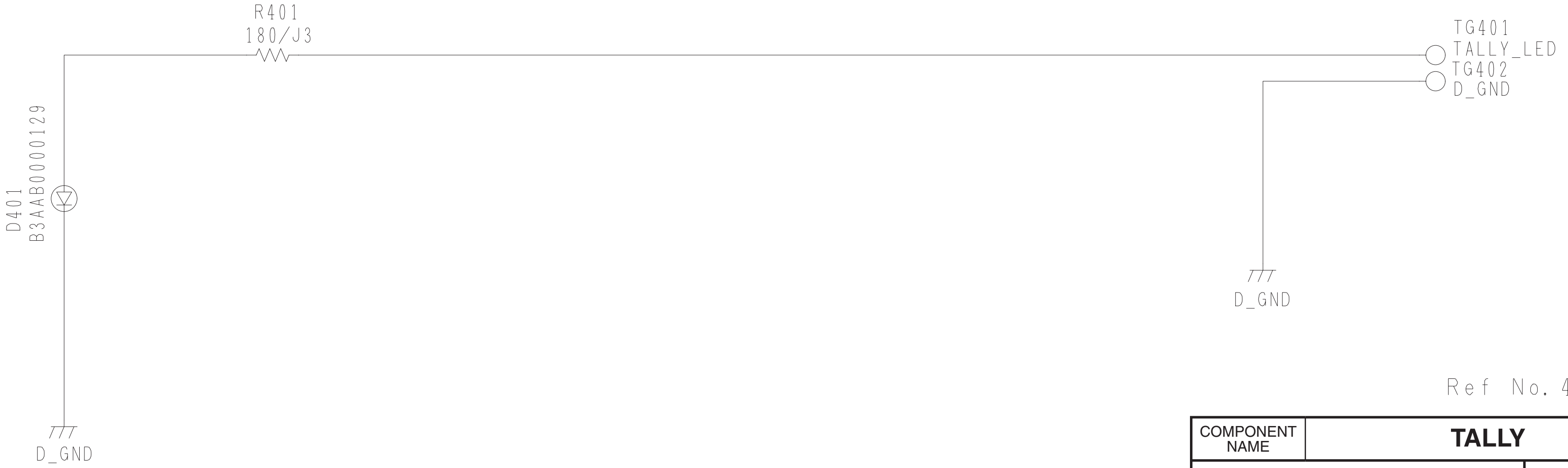
COMPONENT NAME	**LCD_OPEN**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E1A	KR0A0071 (1/1)	
	SCM034	


JB3
BLD
G
D
S
Q881
B1DFCL000006
T881
ETJ11K90AM
1 2 3 4
8 7 6 5
BL881
A2CD00000029
JB1
BL6V
L881
10U
F1L1A2260013
C802
22U
TB2
NOREGGND

COMPONENT NAME	**EVF_B**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28275B	KR8841 (1/1)	
	SCM034	

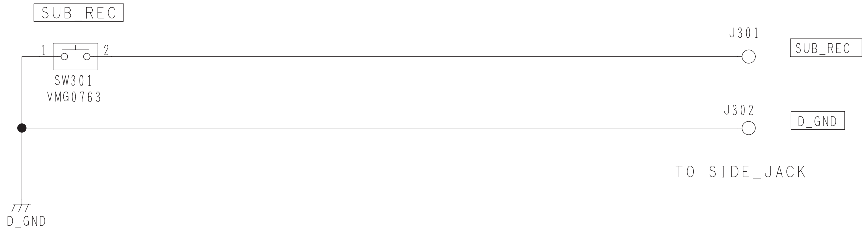

CASS_OPEN
J501
SW501
K0L1BB000022
2
1
D_GND
J502
TO_VTR
R501
PAT/J3
U501
D_GND
F_GND
Ref No.500 Series

COMPONENT NAME	**CAS_OPEN**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E5A	KR0A0075 (1/1)	
	SCM034	


R401
180/J3
TG401
TALLY_LED
TG402
D_GND
D401
B3AAB0000129
D_GND
D_GND

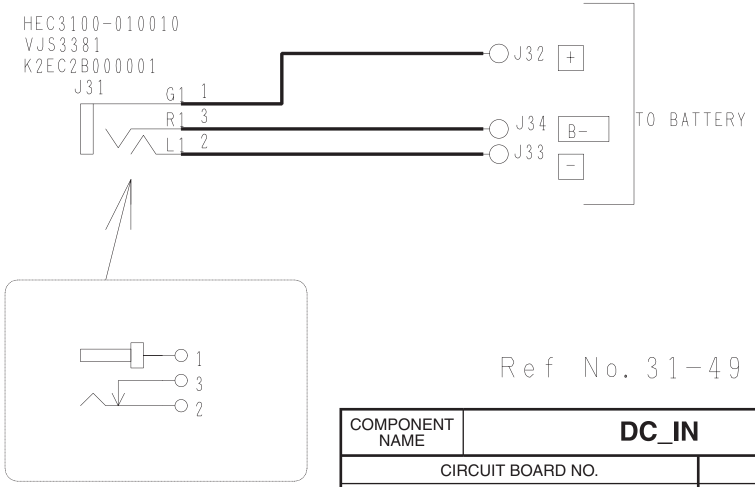
Ref No.400 Series

COMPONENT NAME	**TALLY**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E4A	KR0A0074 (1/1)	
	SCM035	


SUB_REC
1
2
SW301
VMG0763
J301
SUB_REC
J302
D_GND
TO SIDE_JACK
D_GND

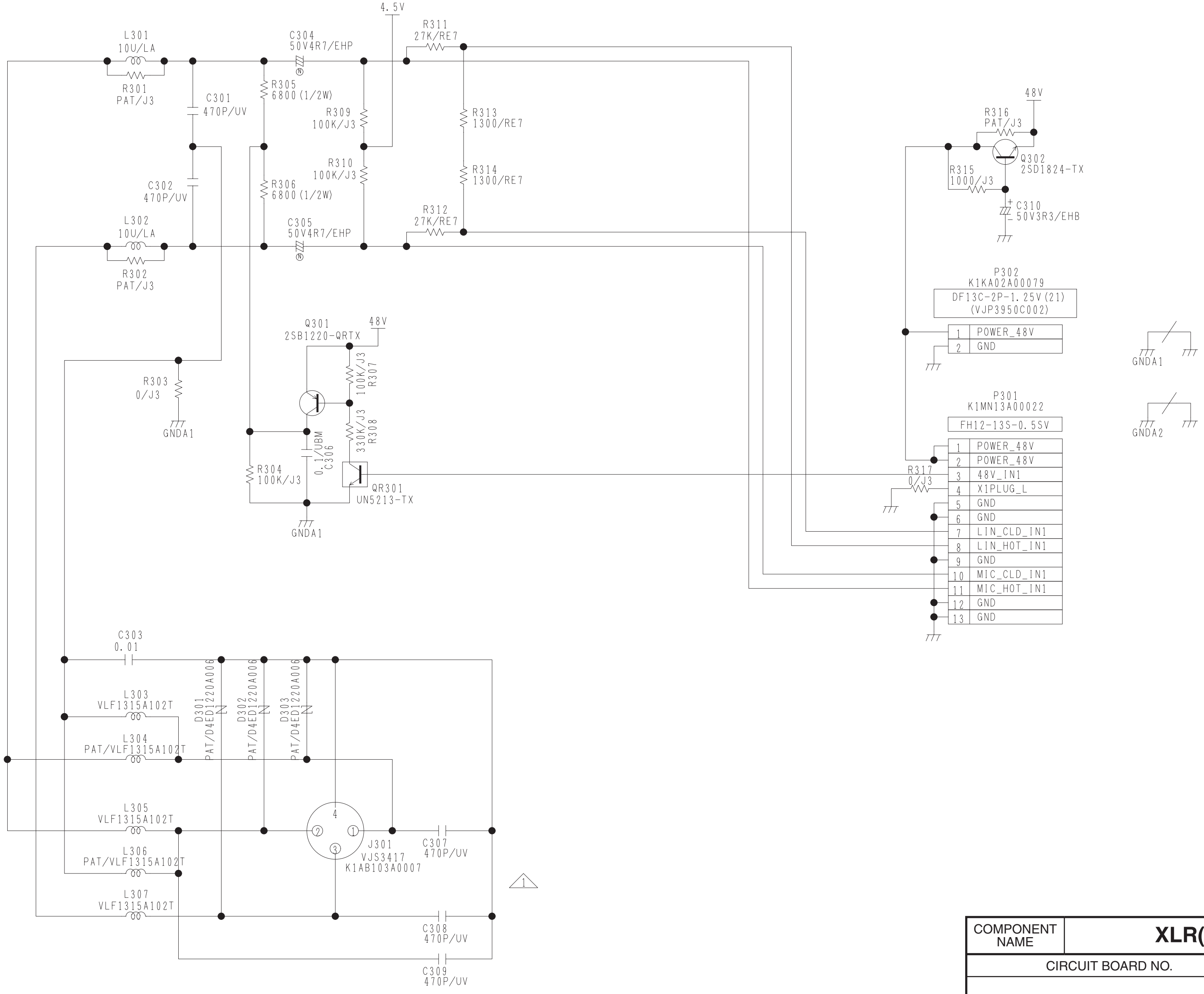
Ref No.301 Series

COMPONENT NAME	**SUB_REC**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001G1A	KR0A0147 (1/1)	
	SCM035	


HEC3100-010010
VJS3381
K2EC2B000001
J31
G1 1
R1 3
L1 2
J32
+
J34
B-
J33
-
TO BATTERY
1
3
2

Ref No.31-49 Series

COMPONENT NAME	**DC_IN**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01957A	KR1A0062 (1/1)	
	SCM035	


4.5V
L301
10U/LA
R301
PAT/J3
C304
50V4R7/EHP
R311
27K/RE7
R305
6800(1/2W)
C301
470P/UV
R309
100K/J3
R313
1300/RE7
R310
100K/J3
R314
1300/RE7
C302
470P/UV
R306
6800(1/2W)
L302
10U/LA
R302
PAT/J3
C305
50V4R7/EHP
R312
27K/RE7
48V
R316
PAT/J3
Q302
2SD1824-TX
R315
1000/J3
C310
50V3R3/EHB
P302
K1KA02A00079
DF13C-2P-1.25V(21)
(VJP3950C002)
1 POWER_48V
2 GND
GNDA1
Q301
2SB1220-QRTX
48V
R307
100K/J3
R303
0/J3
GNDA1
R308
330K/J3
C306
0.1/UBM
R304
100K/J3
QR301
UN5213-TX
GNDA1
P301
K1MN13A00022
FH12-13S-0.5SV
GNDA2
1 POWER_48V
2 POWER_48V
3 48V_IN1
4 X1PLUG_L
5 GND
6 GND
7 LIN_CLD_IN1
8 LIN_HOT_IN1
9 GND
10 MIC_CLD_IN1
11 MIC_HOT_IN1
12 GND
13 GND
R317
0/J3
C303
0.01
L303
VLF1315A102T
D301
PAT/D4ED1220A006
D302
PAT/D4ED1220A006
D303
PAT/D4ED1220A006
L304
PAT/VLF1315A102T
L305
VLF1315A102T
4
2
1
3
J301
VJS3417
K1AB103A0007
C307
470P/UV
1
L306
PAT/VLF1315A102T
L307
VLF1315A102T
C308
470P/UV
C309
470P/UV
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
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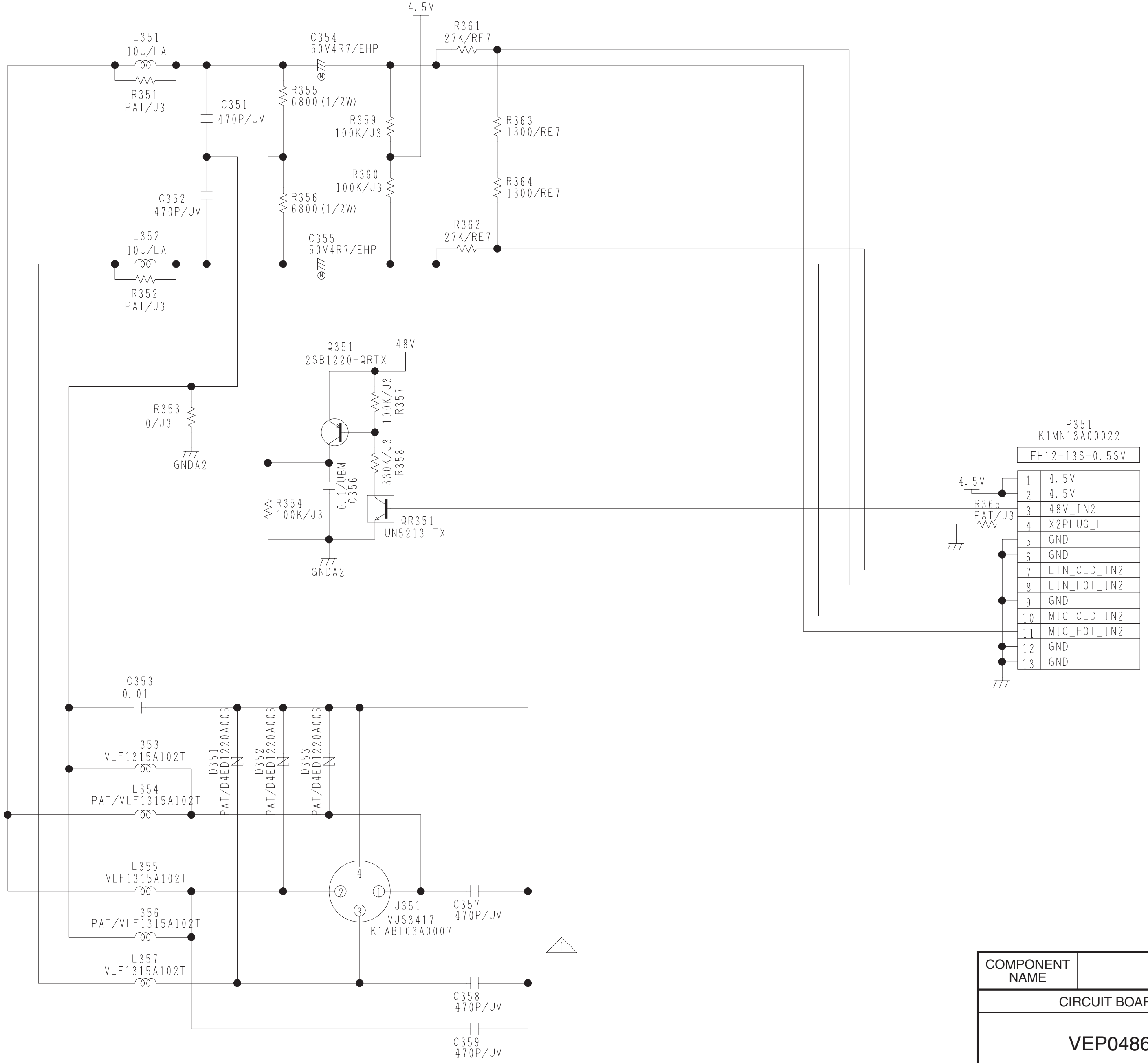
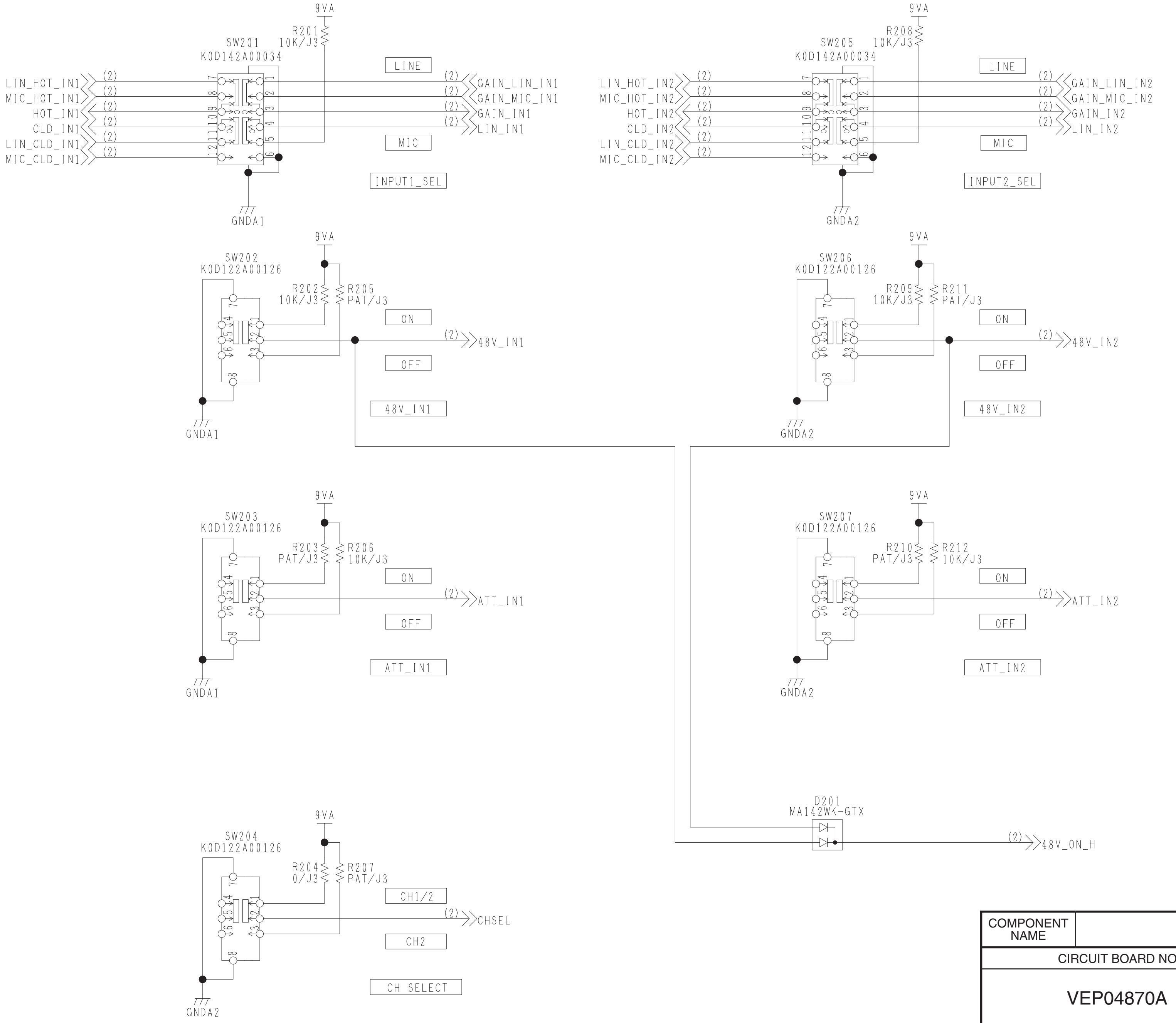
12
13
14
15

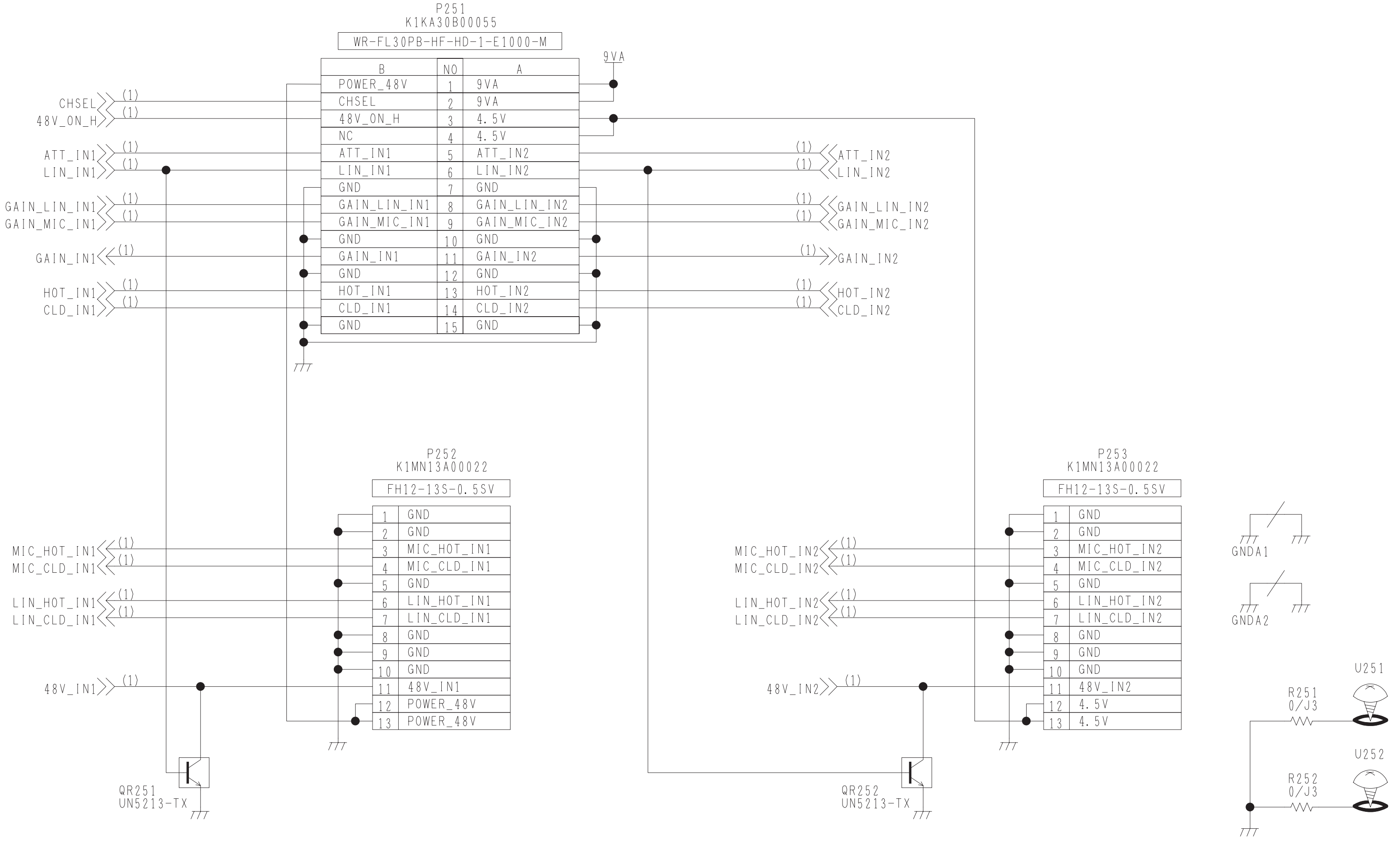
COMPONENT NAME	XLR(INPUT1)	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04869A	KR4A0053 (1/2)	
	SCM036	


4.5V
L351
10U/LA
R351
PAT/J3
C354
50V4R7/EHP
R361
27K/RE7
C351
470P/UV
R355
6800(1/2W)
R359
100K/J3
R363
1300/RE7
C352
470P/UV
R356
6800(1/2W)
R360
100K/J3
R364
1300/RE7
R362
27K/RE7
L352
10U/LA
C355
50V4R7/EHP
R352
PAT/J3
Q351
2SB1220-QRTX
48V
R353
0/J3
GNDA2
R357
100K/J3
R358
330K/J3
C356
0.1/UBM
R354
100K/J3
QR351
UN5213-TX
GNDA2
P351
K1MN13A00022
FH12-13S-0.5SV
4.5V
R365
PAT/J3
1 4.5V
2 4.5V
3 48V_IN2
4 X2PLUG_L
5 GND
6 GND
7 LIN_CLD_IN2
8 LIN_HOT_IN2
9 GND
10 MIC_CLD_IN2
11 MIC_HOT_IN2
12 GND
13 GND
C353
0.01
L353
VLF1315A102T
L354
PAT/VLF1315A102T
D351
PAT/D4ED1220A006
D352
PAT/D4ED1220A006
D353
PAT/D4ED1220A006
L355
VLF1315A102T
4
2
1
3
J351
VJS3417
K1AB103A0007
C357
470P/UV
L356
PAT/VLF1315A102T
1
L357
VLF1315A102T
C358
470P/UV
C359
470P/UV

COMPONENT NAME	XLR(INPUT2)	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04869A	KR4A0053 (2/2)	
	SCM037	


9VA
R201 10K/J3
SW201 K0D142A00034
LIN_HOT_IN1
MIC_HOT_IN1
HOT_IN1
CLD_IN1
LIN_CLD_IN1
MIC_CLD_IN1
(2)
LINE
MIC
INPUT1_SEL
GAIN_LIN_IN1
GAIN_MIC_IN1
GAIN_IN1
LIN_IN1
GNDA1
9VA
R208 10K/J3
SW205 K0D142A00034
LIN_HOT_IN2
MIC_HOT_IN2
HOT_IN2
CLD_IN2
LIN_CLD_IN2
MIC_CLD_IN2
LINE
MIC
INPUT2_SEL
GAIN_LIN_IN2
GAIN_MIC_IN2
GAIN_IN2
LIN_IN2
GNDA2
SW202 K0D122A00126
R202 10K/J3
R205 PAT/J3
ON
OFF
48V_IN1
GNDA1
SW206 K0D122A00126
R209 10K/J3
R211 PAT/J3
ON
OFF
48V_IN2
GNDA2
SW203 K0D122A00126
R203 PAT/J3
R206 10K/J3
ON
OFF
ATT_IN1
GNDA1
SW207 K0D122A00126
R210 PAT/J3
R212 10K/J3
ON
OFF
ATT_IN2
GNDA2
D201 MA142WK-GTX
48V_ON_H
SW204 K0D122A00126
R204 0/J3
R207 PAT/J3
CH1/2
CH2
CHSEL
CH SELECT
GNDA2
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

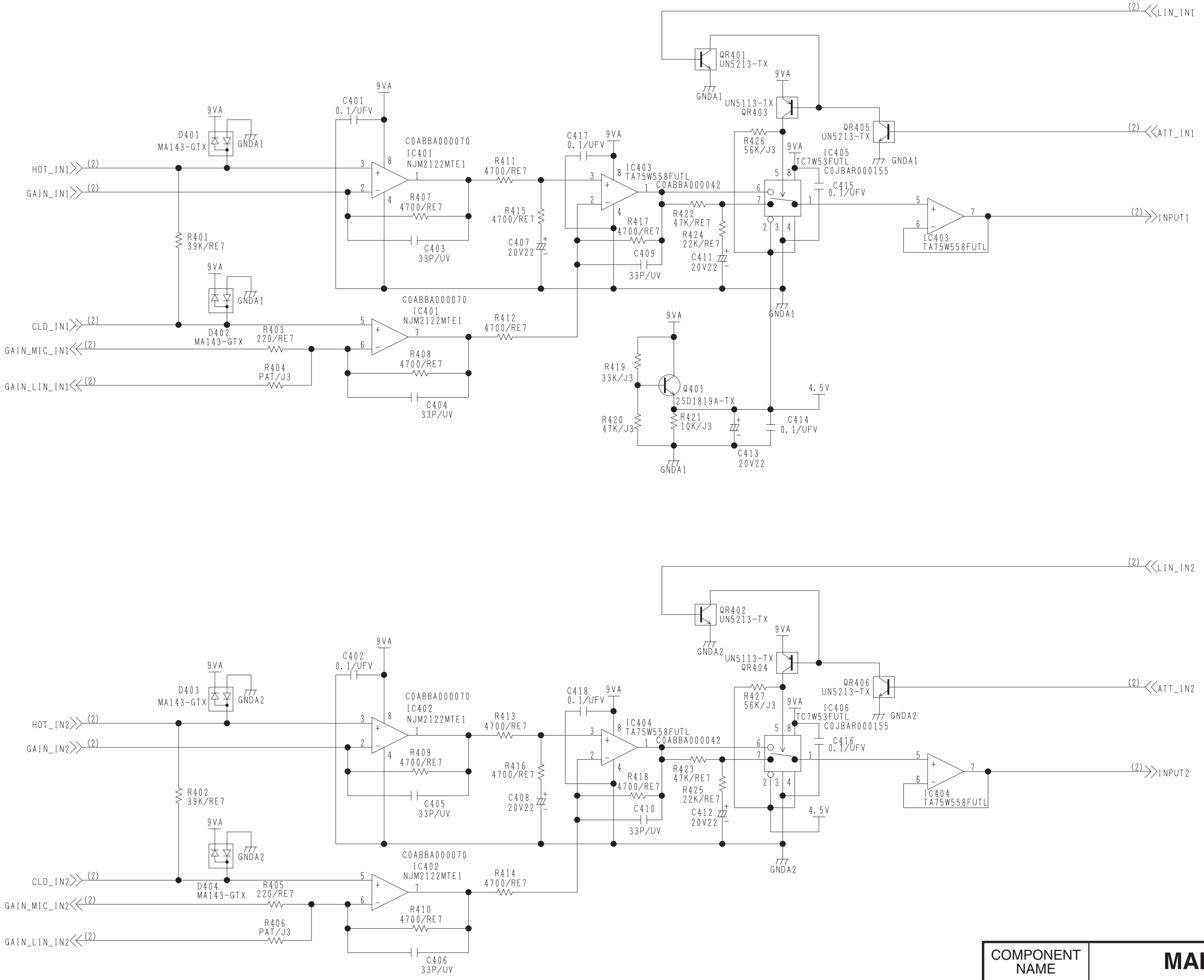
COMPONENT NAME	SW(SW)	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04870A	KR4A0054 (1/2)	
	SCM038	


P251
K1KA30B00055
WR-FL30PB-HF-HD-1-E1000-M
9VA
B
NO
A
POWER_48V
CHSEL
48V_ON_H
NC
ATT_IN1
LIN_IN1
GND
GAIN_LIN_IN1
GAIN_MIC_IN1
GAIN_IN1
HOT_IN1
CLD_IN1
9VA
4.5V
ATT_IN2
LIN_IN2
GAIN_LIN_IN2
GAIN_MIC_IN2
GAIN_IN2
HOT_IN2
CLD_IN2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
(1)
CHSEL
48V_ON_H
ATT_IN1
LIN_IN1
GAIN_LIN_IN1
GAIN_MIC_IN1
GAIN_IN1
HOT_IN1
CLD_IN1
ATT_IN2
LIN_IN2
GAIN_LIN_IN2
GAIN_MIC_IN2
GAIN_IN2
HOT_IN2
CLD_IN2
P252
K1MN13A00022
FH12-13S-0.5SV
GND
MIC_HOT_IN1
MIC_CLD_IN1
LIN_HOT_IN1
LIN_CLD_IN1
48V_IN1
POWER_48V
MIC_HOT_IN1
MIC_CLD_IN1
LIN_HOT_IN1
LIN_CLD_IN1
48V_IN1
QR251
UN5213-TX
P253
K1MN13A00022
FH12-13S-0.5SV
GND
MIC_HOT_IN2
MIC_CLD_IN2
LIN_HOT_IN2
LIN_CLD_IN2
48V_IN2
4.5V
MIC_HOT_IN2
MIC_CLD_IN2
LIN_HOT_IN2
LIN_CLD_IN2
48V_IN2
QR252
UN5213-TX
GNDA1
GNDA2
U251
R251
0/J3
U252
R252
0/J3

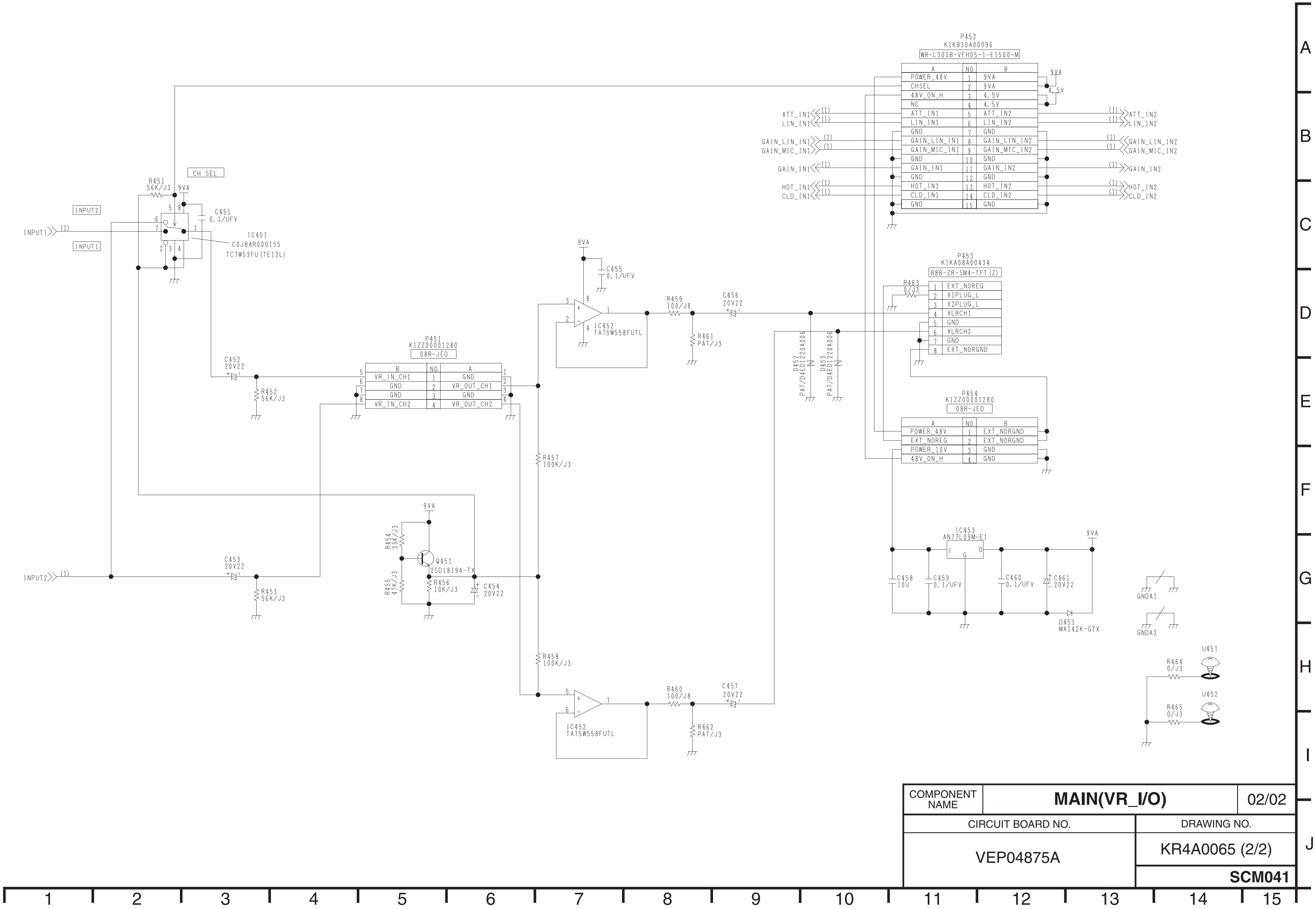
COMPONENT NAME	**SW(CN)**	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04870A	KR4A0054 (2/2)	
	SCM039	

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


LIN_IN1
QR401
UN5213-TX
GNDA1
9VA
UN5113-TX
QR403
QR405
UN5213-TX
ATT_IN1
R426
56K/J3
IC405
TC7W53FUTL
C0JBAR000155
C415
0.1/UFV
C401
0.1/UFV
D401
MA143-GTX
C0ABBA000070
IC401
NJM2122MTE1
R411
4700/RE7
C417
0.1/UFV
IC403
TA75W558FUTL
C0ABBA000042
HOT_IN1
GAIN_IN1
R407
4700/RE7
R415
4700/RE7
R422
47K/RE7
R417
4700/RE7
R424
22K/RE7
INPUT1
C407
20V22
C403
33P/UV
C409
33P/UV
C411
20V22
R401
39K/RE7
CLD_IN1
D402
MA143-GTX
R403
220/RE7
GAIN_MIC_IN1
R412
4700/RE7
R408
4700/RE7
R404
PAT/J3
GAIN_LIN_IN1
C404
33P/UV
R419
33K/J3
Q401
2SD1819A-TX
4.5V
R420
47K/J3
R421
10K/J3
C414
0.1/UFV
C413
20V22
LIN_IN2
QR402
UN5213-TX
GNDA2
QR404
QR406
ATT_IN2
R427
56K/J3
IC406
TC7W53FUTL
C0JBAR000155
C416
0.1/UFV
C402
0.1/UFV
D403
MA143-GTX
IC402
NJM2122MTE1
R413
4700/RE7
C418
0.1/UFV
IC404
TA75W558FUTL
HOT_IN2
GAIN_IN2
R409
4700/RE7
R416
4700/RE7
R423
47K/RE7
R418
4700/RE7
R425
22K/RE7
INPUT2
C408
20V22
C405
33P/UV
C410
33P/UV
C412
20V22
R402
39K/RE7
CLD_IN2
D404
MA143-GTX
R405
220/RE7
GAIN_MIC_IN2
R414
4700/RE7
R410
4700/RE7
R406
PAT/J3
GAIN_LIN_IN2
C406
33P/UV
(2)

COMPONENT NAME	MAIN(GAIN_SEL)	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04875A	KR4A0065 (1/2)	
	SCM040	


P452
K1KB30A00096
WR-L30SB-VFH05-1-E1500-M
A NO B
POWER_48V 1 9VA
CHSEL 2 9VA
48V_ON_H 3 4.5V
NC 4 4.5V
ATT_IN1 5 ATT_IN2
LIN_IN1 6 LIN_IN2
GND 7 GND
GAIN_LIN_IN1 8 GAIN_LIN_IN2
GAIN_MIC_IN1 9 GAIN_MIC_IN2
GND 10 GND
GAIN_IN1 11 GAIN_IN2
GND 12 GND
HOT_IN1 13 HOT_IN2
CLD_IN1 14 CLD_IN2
GND 15 GND
9VA
4.5V
ATT_IN1 (1)
LIN_IN1 (1)
GAIN_LIN_IN1 (1)
GAIN_MIC_IN1 (1)
GAIN_IN1 (1)
HOT_IN1 (1)
CLD_IN1 (1)
(1) ATT_IN2
(1) LIN_IN2
(1) GAIN_LIN_IN2
(1) GAIN_MIC_IN2
(1) GAIN_IN2
(1) HOT_IN2
(1) CLD_IN2
CH SEL
R451 56K/J3
9VA
INPUT2
INPUT1
C451 0.1/UFV
IC451 C0JBAR000155 TC7W53FU(TE12L)
INPUT1 (1)
INPUT2 (1)
9VA
C455 0.1/UFV
IC452 TA75W558FUTL
R459 100/J8
C456 20V22
R461 PAT/J3
P453
K1KA08A00434
B8B-ZR-SM4-TFT(Z)
R463 0/J3
1 EXT_NOREG
2 X1PLUG_L
3 X2PLUG_L
4 XLRCH1
5 GND
6 XLRCH2
7 GND
8 EXT_NORGND
D452 PAT/D4ED1220A006
D453 PAT/D4ED1220A006
P451
K1ZZ00001280
08R-JED
B NO A
VR_IN_CH1 1 GND
GND 2 VR_OUT_CH1
GND 3 GND
VR_IN_CH2 4 VR_OUT_CH2
C452 20V22
R452 56K/J3
P454
K1ZZ00001280
08R-JED
A NO B
POWER_48V 1 EXT_NORGND
EXT_NOREG 2 EXT_NORGND
POWER_10V 3 GND
48V_ON_H 4 GND
R457 100K/J3
9VA
R454 33K/J3
Q451 2SD1819A-TX
R455 47K/J3
R456 10K/J3
C454 20V22
C453 20V22
R453 56K/J3
IC453 AN77L09M-E1
I G O
9VA
C458 10U
C459 0.1/UFV
C460 0.1/UFV
C461 20V22
D451 MA142K-GTX
GNDA1
GNDA2
R458 100K/J3
IC452 TA75W558FUTL
R460 100/J8
C457 20V22
R462 PAT/J3
U451
R464 0/J3
U452
R465 0/J3
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
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7
8
9
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11
12
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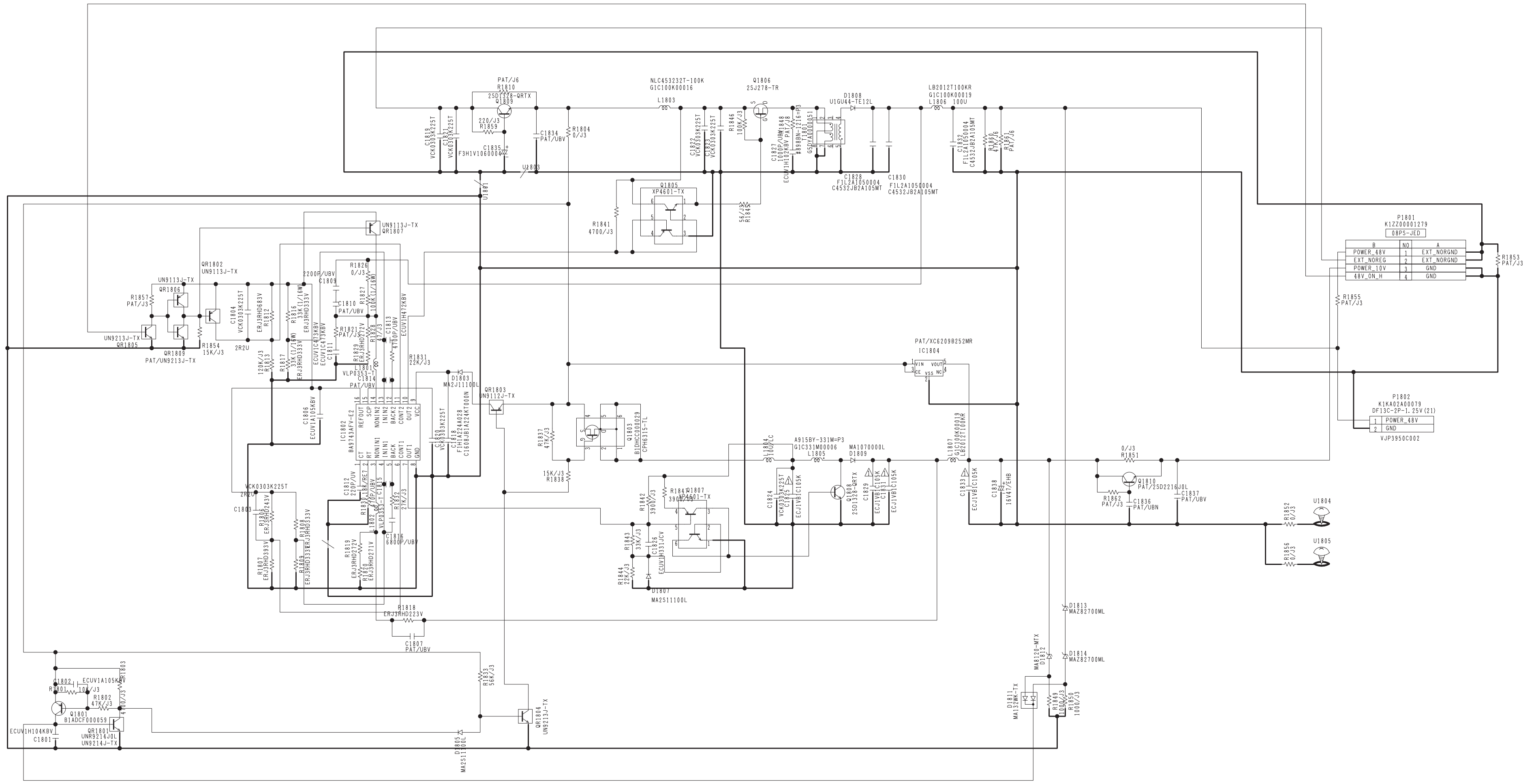
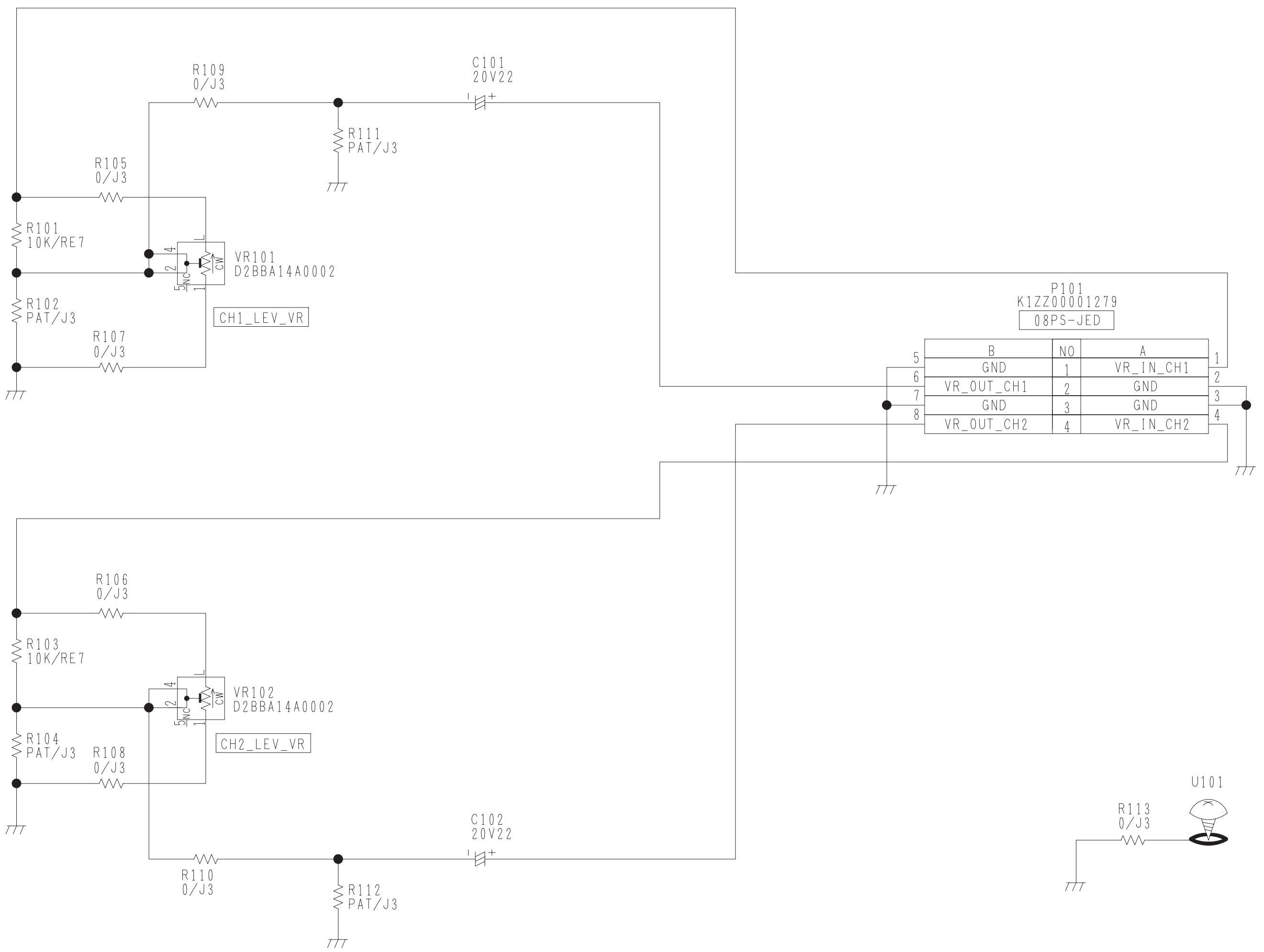
14
15

COMPONENT NAME	MAIN(VR_I/O)	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04875A	KR4A0065 (2/2)	
	SCM041	


PAT/J6
R1810
2SD1328-QRTX
Q1809
220/J3
R1859
C1835
F3H1V106000
C1834
PAT/UBV
R1804
0/J3
U1803
C1819
VCK0303K225T
NLC453232T-100K
G1C100K00016
L1803
Q1806
2SJ278-TR
C1822
VCK0303K225T
R1846
100K/J3
C1827
1000P/UBM
R1848
D1808
U1GU44-TE12L
C1828
F1L2A1050004
C4532JB2A105MT
C1830
F1L2A1050004
C4532JB2A105MT
LB2012T100KR
G1C100K00019
L1806 100U
C1832
F1L2A1050004
C4532JB2A105MT
Q1805
XP4601-TX
R1841
4700/J3
R1845
56/J3
U1801
UN9113J-TX
QR1807
QR1802
UN9113J-TX
UN9113J-TX
QR1806
R1857
PAT/J3
UN9213J-TX
QR1805
QR1809
PAT/UN9213J-TX
R1854
15K/J3
2R2U
C1804
VCK0303K225T
ERJ3RHD683V
R1812
R1816
ERJ3RHD333V
2200P/UBV
C1809
R1826
0/J3
C1810
PAT/UBV
R1827
R1821
PAT/J3
C1813
4700P/UBV
ECUV1H472KBV
R1831
22K/J3
R1817
R1813
120K/J3
R1829
VLP0355-T
C1814
PAT/UBV
C1806
ECUV1A105KBV
IC1802
BA9743AFV-E2
REFOUT
SCP
NONIN2
ININ2
BACK2
CONT2
OUT2
VCC
CT
RT
NONIN1
ININ1
BACK
CONT1
OUT1
GND
D1803
MA2J11100L
C1820
VCK0303K225T
C1818
F1H1A224A028
C1608JB1A224KT000N
QR1803
UN9112J-TX
R1837
47K/J3
15K/J3
R1838
Q1803
CPH6315-TL
B1DHCC000029
VCK0303K225T
2R2U
C1803
R1801
ERJ3RHD243V
R1808
ERJ3RHD333V
R1807
ERJ3RHD393V
R1809
ERJ3RHD333V
C1812
220P/UV
R1819
ERJ3RHD272V
ERJ3RHD271V
C1816
6800P/UBV
R1822
27K/J3
R1818
ERJ3RHD223V
C1807
PAT/UBV
R1842
3900/J3
R1847
3900/J3
QR1807
XP4601-TX
R1843
33K/J3
C1826
ECUV1H331JCV
R1844
22K/J3
D1807
MA2S11100L
L1804
A915BY-331M=P3
G1C331M00006
L1805
MA1070000L
D1809
C1824
VCK0303K225T
C1825
ECJ1VB1C105K
Q1808
2SD1328-QRTX
C1829
ECJ1VB1C105K
C1831
ECJ1VB1C105K
PAT/XC6209B252MR
IC1804
VIN
VOUT
CE
VSS
NC
L1807
G1C100K00019
LB2012T100KR
C1833
ECJ1VB1C105K
C1838
16V47/EHB
0/J3
R1851
Q1810
PAT/2SD2216J0L
R1862
PAT/J3
C1836
PAT/UBN
C1837
PAT/UBV
R1852
0/J3
U1804
R1856
0/J3
U1805
P1801
K1ZZ00001279
08PS-JED
B
NO
A
POWER_48V
EXT_NOREG
POWER_10V
48V_ON_H
EXT_NORGND
EXT_NORGND
GND
GND
R1853
PAT/J3
R1855
PAT/J3
P1802
K1KA02A00079
DF13C-2P-1.25V(21)
POWER_48V
GND
VJP3950C002
D1813
MAZ82700ML
D1814
MAZ82700ML
MA8120-MTX
D1812
D1811
MA132WK-TX
R1849
1000/J3
R1850
1000/J3
R1802
ECUV1A105KBV
R1803
4700/J3
R1802
47K/J3
Q1801
B1ADCF000059
QR1801
UNR9214J0L
UN9214J-TX
ECUV1H104KBV
C1801
R1833
56K/J3
QR1804
UN9213J-TX
D1805
MA2S11100L

PAT=PATTERN ONLY
Ref No.1800 Series.

COMPONENT NAME	POWER		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP01956A		KR1A0054 (1/1)	
		SCM042	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0/J3
C101
20V22
R111
PAT/J3
R105
0/J3
R101
10K/RE7
VR101
D2BBA14A0002
CW
NC
R102
PAT/J3
CH1_LEV_VR
R107
0/J3
P101
K1ZZ00001279
08PS-JED
B
NO
A
GND
1
VR_IN_CH1
VR_OUT_CH1
2
GND
GND
3
GND
VR_OUT_CH2
4
VR_IN_CH2
5
6
7
8
1
2
3
4
R106
0/J3
R103
10K/RE7
VR102
D2BBA14A0002
CH2_LEV_VR
R104
PAT/J3
R108
0/J3
C102
20V22
R110
0/J3
R112
PAT/J3
U101
R113
0/J3

COMPONENT NAME	**VR**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04871A	KR4A0055 (1/1)	
	SCM043	

SECTION 7

CIRCUIT BOARD DIAGRAMS

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 8

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

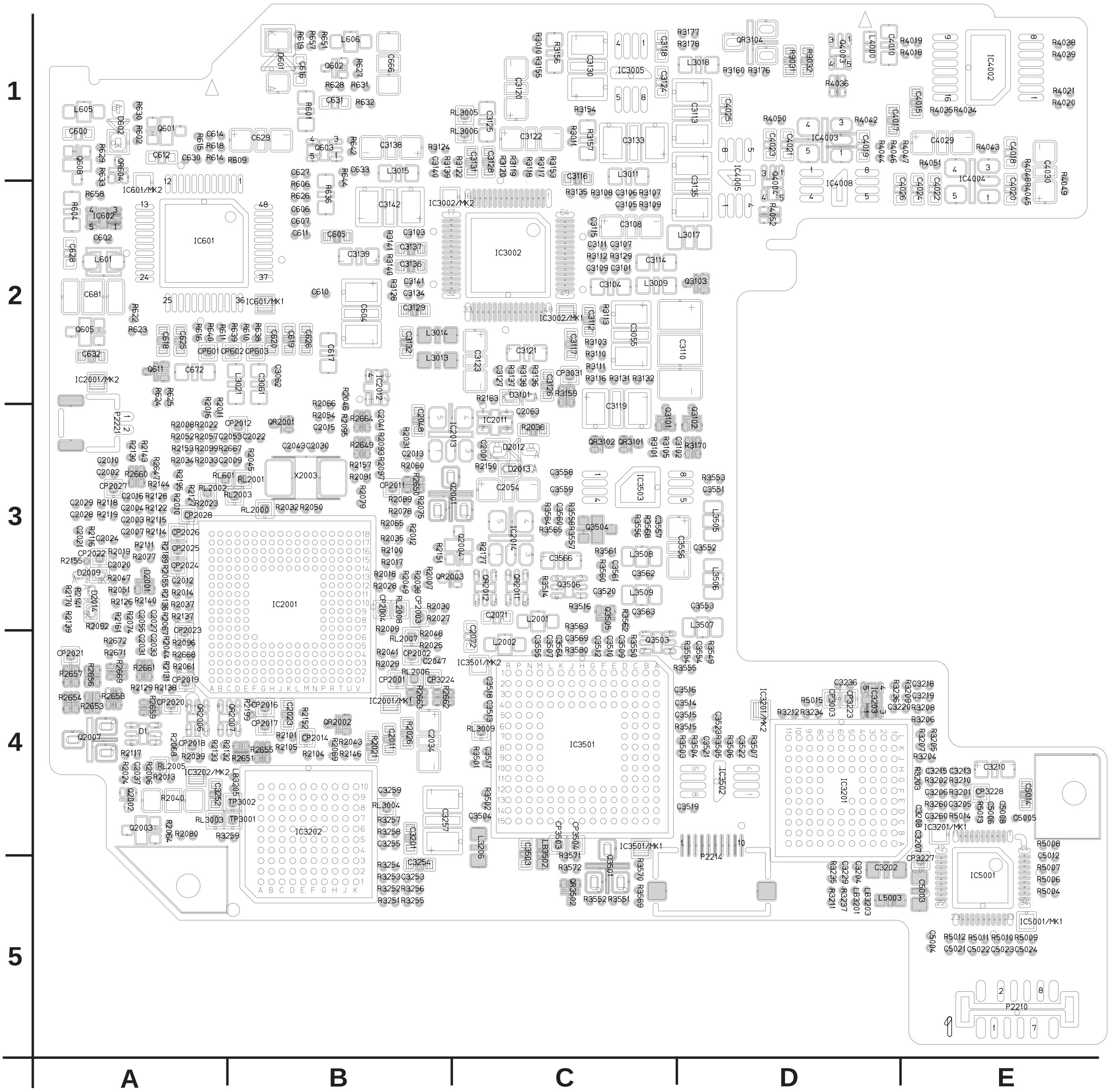
CONTENTS

VTR C.B.A. (NTSC model: VEP03G60A) (PAL model: VEP03G60B) (FOIL SIDE) CBA-1
VTR C.B.A. (NTSC model: VEP03G60A) (PAL model: VEP03G60B) (COMPONENT SIDE) CBA-2
CAMERA C.B.A. (NTSC model: VEP23598A) (PAL model: VEP23598B) (FOIL SIDE) CBA-3
CAMERA C.B.A. (NTSC model: VEP23598A) (PAL model: VEP23598B) (COMPONENT SIDE) CBA-4
POWER C.B.A. (VEP01952A) (FOIL SIDE) CBA-5
POWER C.B.A. (VEP01952A) (COMPONENT SIDE) CBA-6

VTR C.B.A. (NTSC model: VEP03G60A)
(PAL model: VEP03G60B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2001	B3	IC3501	C4	IC601	A2	Q2007	A4	Q4003	D1	QR2002	B4	QR3501	C5
IC2011	C3	IC3502	D4	IC602	A2	Q3101	C3	Q4004	D2	QR2003	C3	QR3502	C5
IC2012	B2	IC3503	C3	P2210	E5	Q3102	D3	Q601	A1	QR2006	A4	QR604	A1
IC2013	C3	IC4002	E1	P2214	D5	Q3103	D2	Q602	B1	QR2007	B4	TP3001	B4
IC2014	C3	IC4003	D1	P2221	A3	Q3501	C5	Q603	B1	QR2011	C3	TP3002	B4
IC3002	C2	IC4004	E1	Q2001	C3	Q3503	C4	Q605	A2	QR2012	C3		
IC3005	C1	IC4005	D1	Q2002	A4	Q3504	C3	Q608	A1	QR3101	C3		
IC3201	D4	IC4008	D2	Q2003	A4	Q3505	C3	Q611	A2	QR3102	C3		
IC3202	B4	IC5001	E5	Q2004	C3	Q3506	C3	QR2001	B3	QR3104	D1		

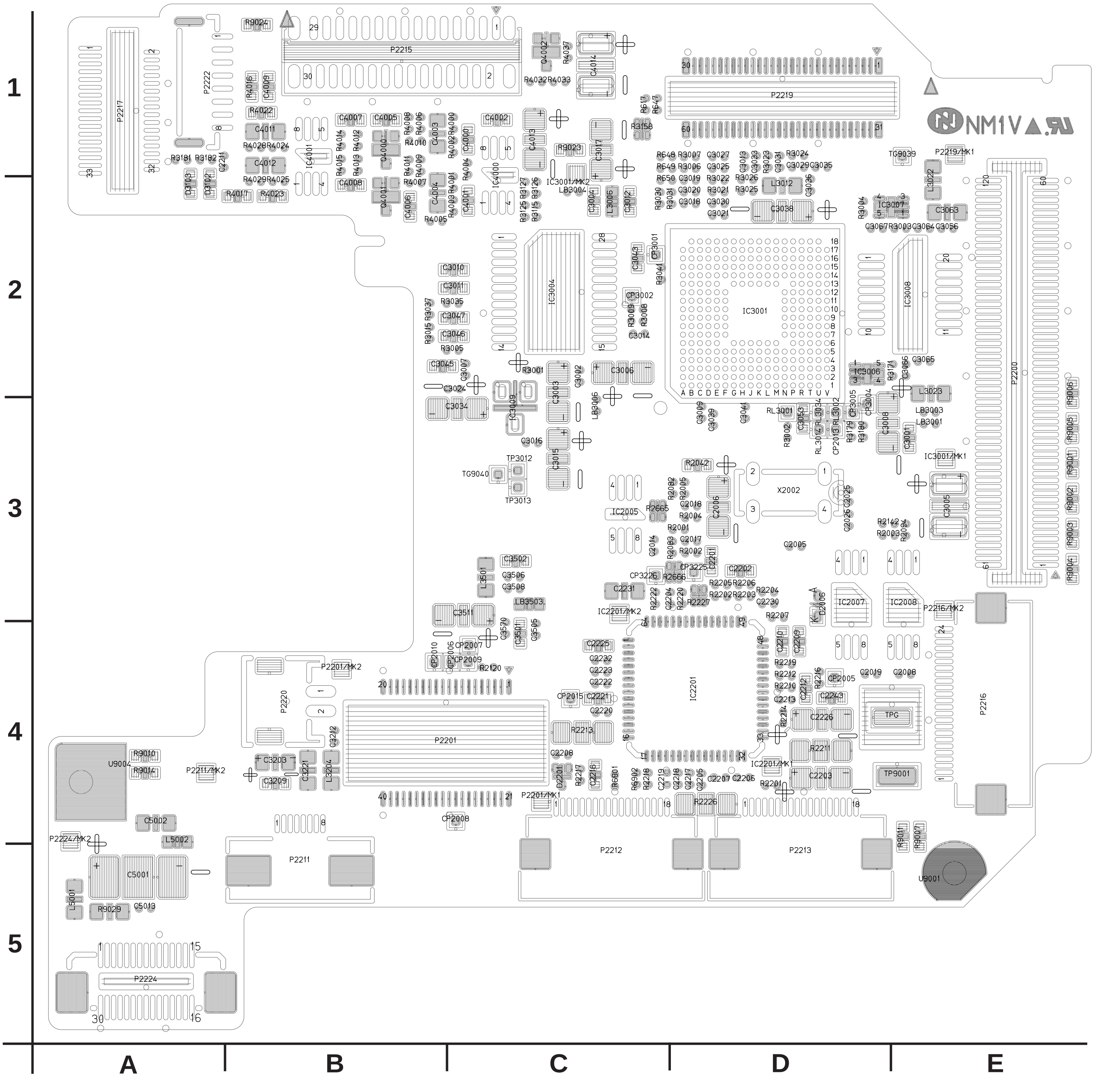


(FOIL SIDE)

VTR C.B.A. (NTSC model: VEP03G60A)
(PAL model: VEP03G60B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2005	C3	IC3007	D2	P2211	B5	P2220	B4	TP3013	C3
IC2007	D3	IC3008	E2	P2212	C5	P2222	A1	TP9001	E4
IC2008	E3	IC3009	C3	P2213	D5	P2224	A5	TG9040	C3
IC2201	D4	IC4000	C1	P2215	B1	Q4000	B1	TG9039	D1
IC3001	D2	IC4001	B1	P2216	E4	Q4001	B2	TPG	E4
IC3004	C2	P2200	E2	P2217	A1	Q4002	C1		
IC3006	D2	P2201	B4	P2219	D1	TP3012	C3		



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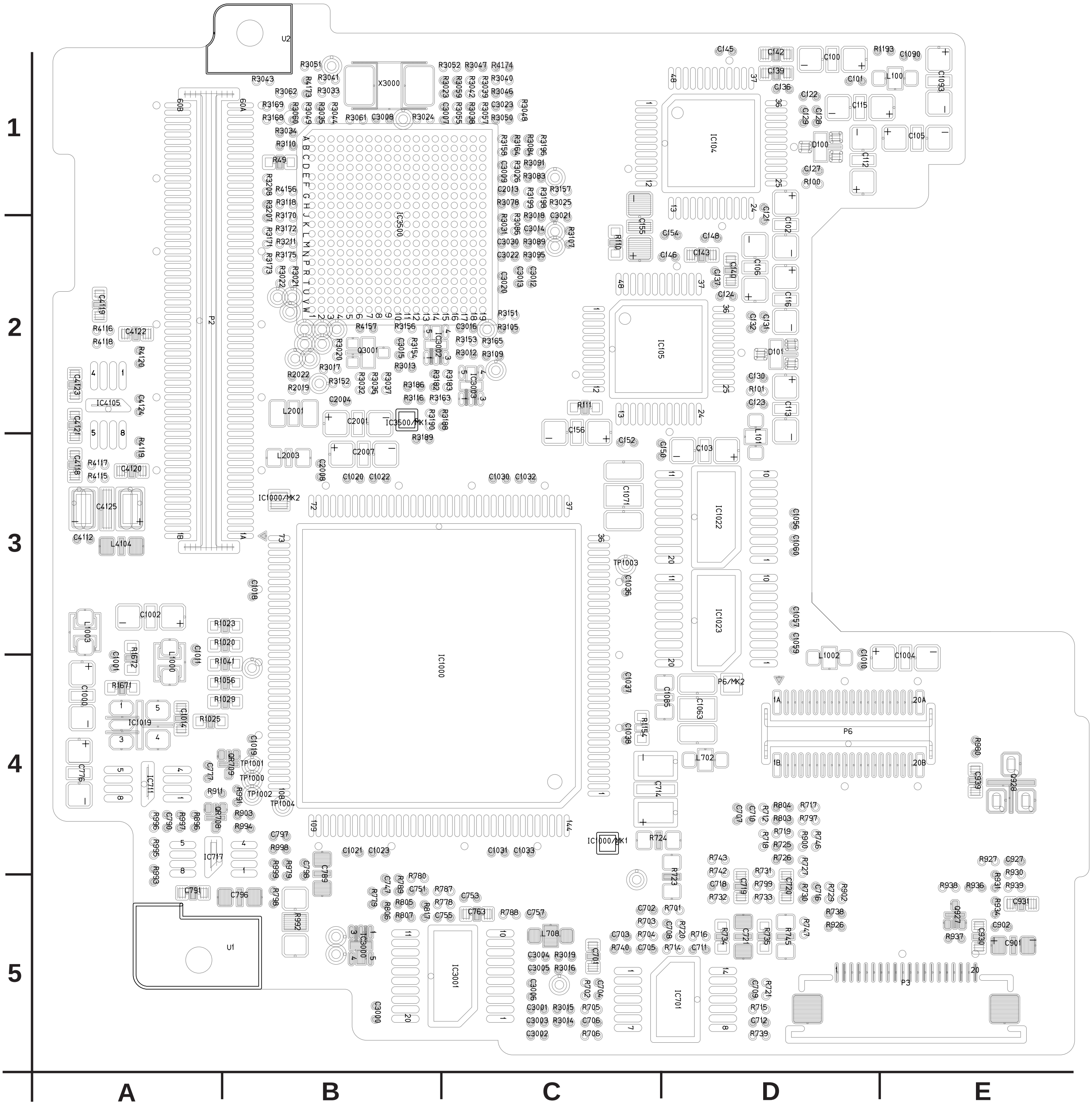
A
B
C
D
E
P2217
P2222
P2215
P2219
NM1V
IC4001
IC4000
IC3004
IC3001
IC3008
P2200
IC3006
IC3007
X2002
IC2005
IC2007
IC2008
IC2201
P2216
P2220
P2201
TPG
TP9001
U9004
C5001
P2211
P2212
P2213
U9001
P2224
TP3012
TP3013
TG9040
TG9039

(COMPONENT SIDE)

CAMERA C.B.A. (NTSC model: VEP23598A)
(PAL model: VEP23598B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1000	B4	IC3003	C2	Q3001	B2	TP1004	B4
IC1019	A4	IC3500	B2	Q927	E5		
IC1022	D3	IC4105	A2	Q928	E4		
IC1023	D3	IC701	D5	QR708	A4		
IC104	D1	IC711	A4	QR709	B4		
IC105	C2	IC717	A4	TP1000	B4		
IC3000	B5	P2	A2	TP1001	B4		
IC3001	C5	P3	E5	TP1002	B4		
IC3002	B2	P6	D4	TP1003	C3		



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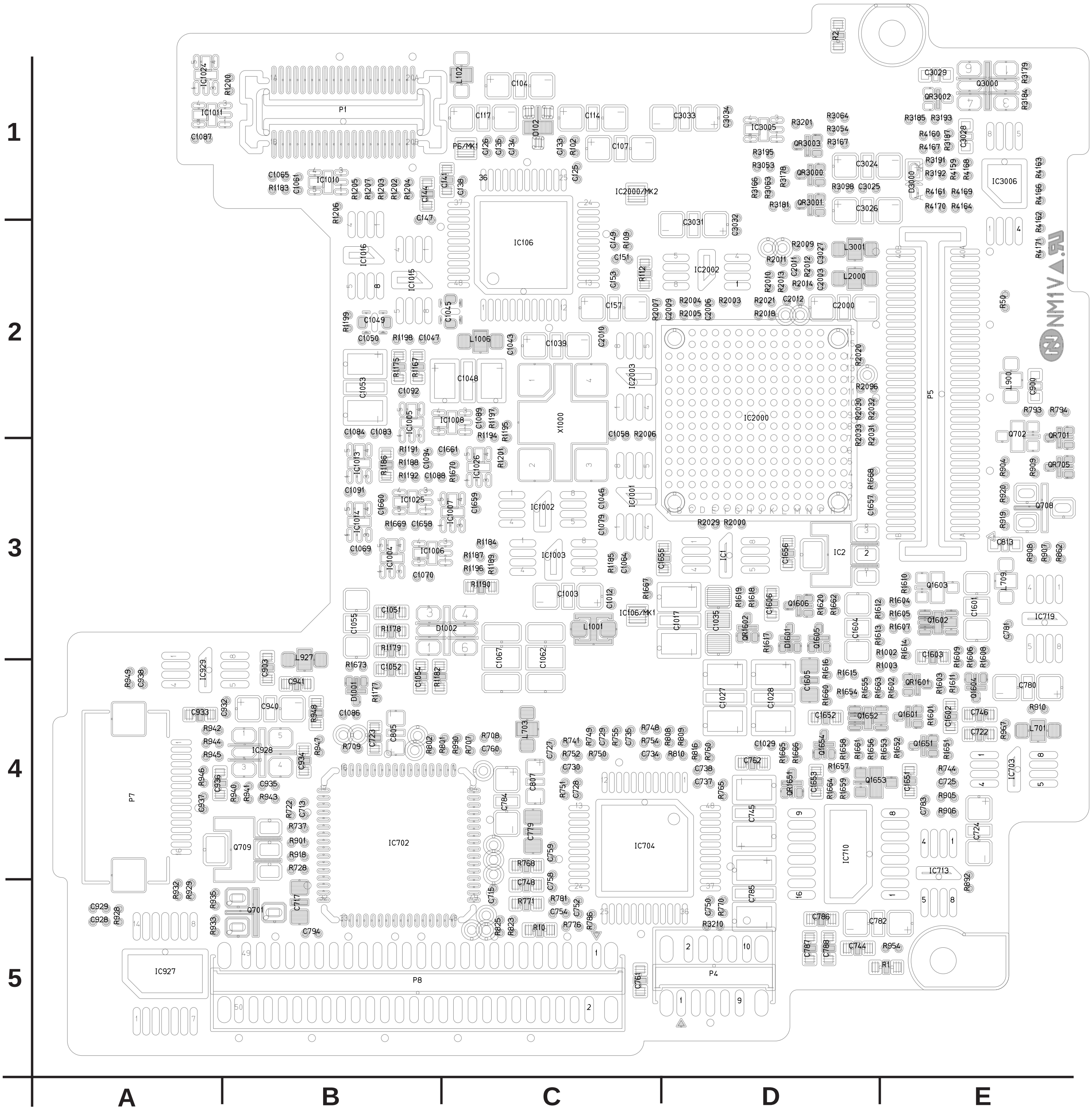
A
B
C
D
E
U2
U1
P2
P3
P6
IC3500
IC1000
IC104
IC105
IC1022
IC1023
IC3001
IC701
IC4105
IC1019
IC711
IC717
IC3000
IC3002
IC3003
X3000
Q3001
TP1000
TP1001
TP1002
TP1003
TP1004
IC1000/MK1
IC1000/MK2
IC3500/MK1
P6/MK2

(FOIL SIDE)

CAMERA C.B.A. (NTSC model: VEP23598A)
(PAL model: VEP23598B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	D3	IC1010	B1	IC106	C2	IC704	C4	P5	E2	Q1651	E4	QR1601	E4
IC1001	C3	IC1011	A1	IC2	D3	IC710	D4	P7	A4	Q1652	D4	QR1602	D3
IC1002	C3	IC1013	B3	IC2000	E2	IC713	E4	P8	B5	Q1653	D4	QR1651	D4
IC1003	C3	IC1014	B3	IC2002	E2	IC719	E3	Q1601	E4	Q1654	D4	QR3000	D1
IC1004	B3	IC1015	B2	IC2003	C2	IC927	A5	Q1602	E3	Q3000	E1	QR3001	D1
IC1005	B2	IC1016	B2	IC3005	D1	IC928	B4	Q1603	E3	Q701	B5	QR3002	E1
IC1006	B3	IC1024	A1	IC3006	E1	IC929	A4	Q1604	E4	Q702	E2	QR3003	D1
IC1007	C3	IC1025	B3	IC702	B4	P1	B1	Q1605	D3	Q708	E3	QR701	E2
IC1008	C2	IC1026	C3	IC703	E4	P4	D5	Q1606	D3	Q709	B4	QR705	E3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C
D
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P1
P4
P5
P7
P8
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IC702
IC704
IC710
IC927
IC928
IC1
IC2
X1000
IC3006
L3001
L2000
C2000
Q709
Q701
Q708
Q702
NM1V

(COMPONENT SIDE)

POWER C.B.A. (VEP01952A)

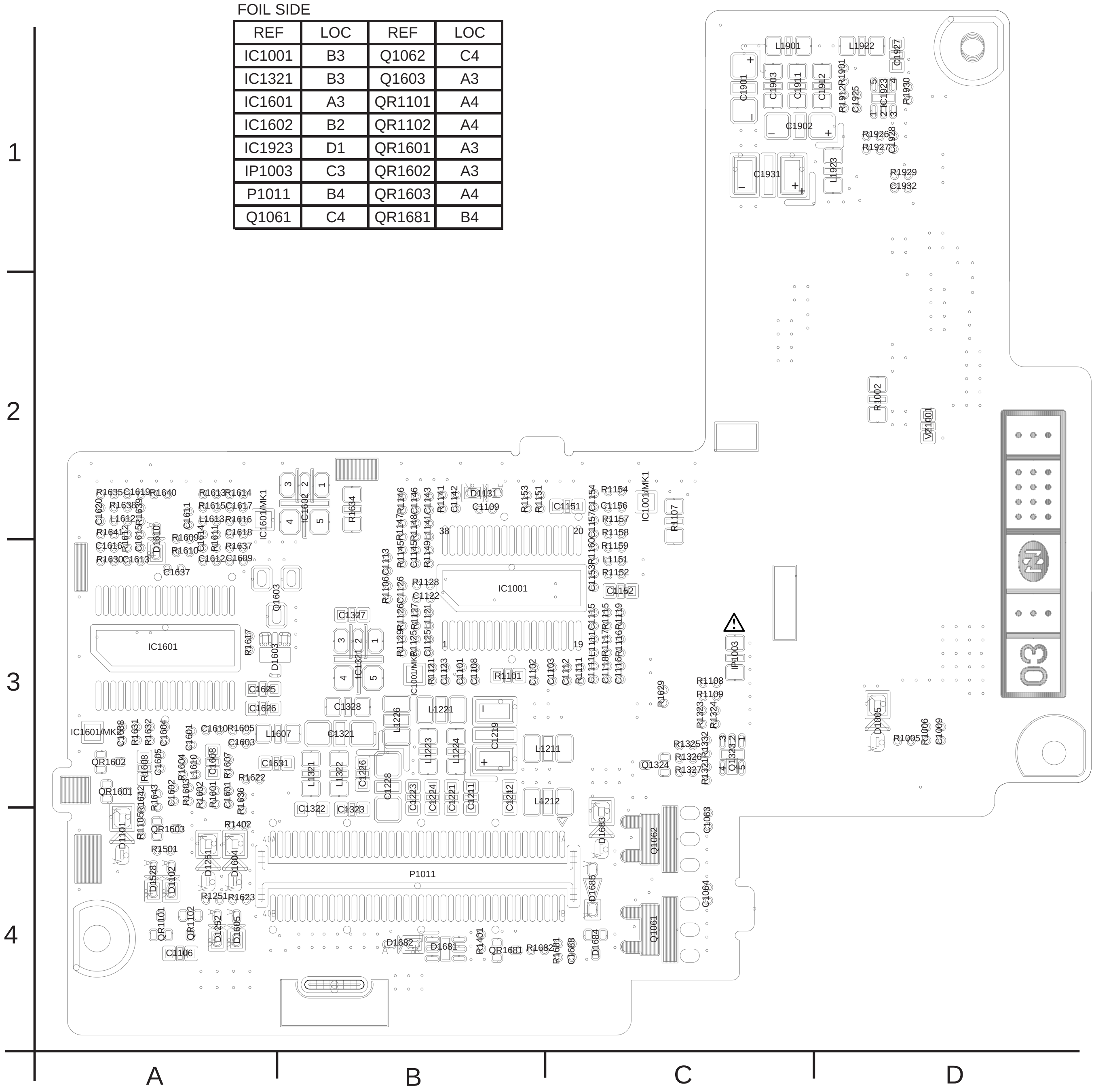
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

FOIL SIDE

REF	LOC	REF	LOC
IC1001	B3	Q1062	C4
IC1321	B3	Q1603	A3
IC1601	A3	QR1101	A4
IC1602	B2	QR1102	A4
IC1923	D1	QR1601	A3
IP1003	C3	QR1602	A3
P1011	B4	QR1603	A4
Q1061	C4	QR1681	B4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2
3
4
A
B
C
D
IC1601
IC1001
P1011
IP1003
Q1061
Q1062
03

(FOIL SIDE)

POWER C.B.A. (VEP01952A)

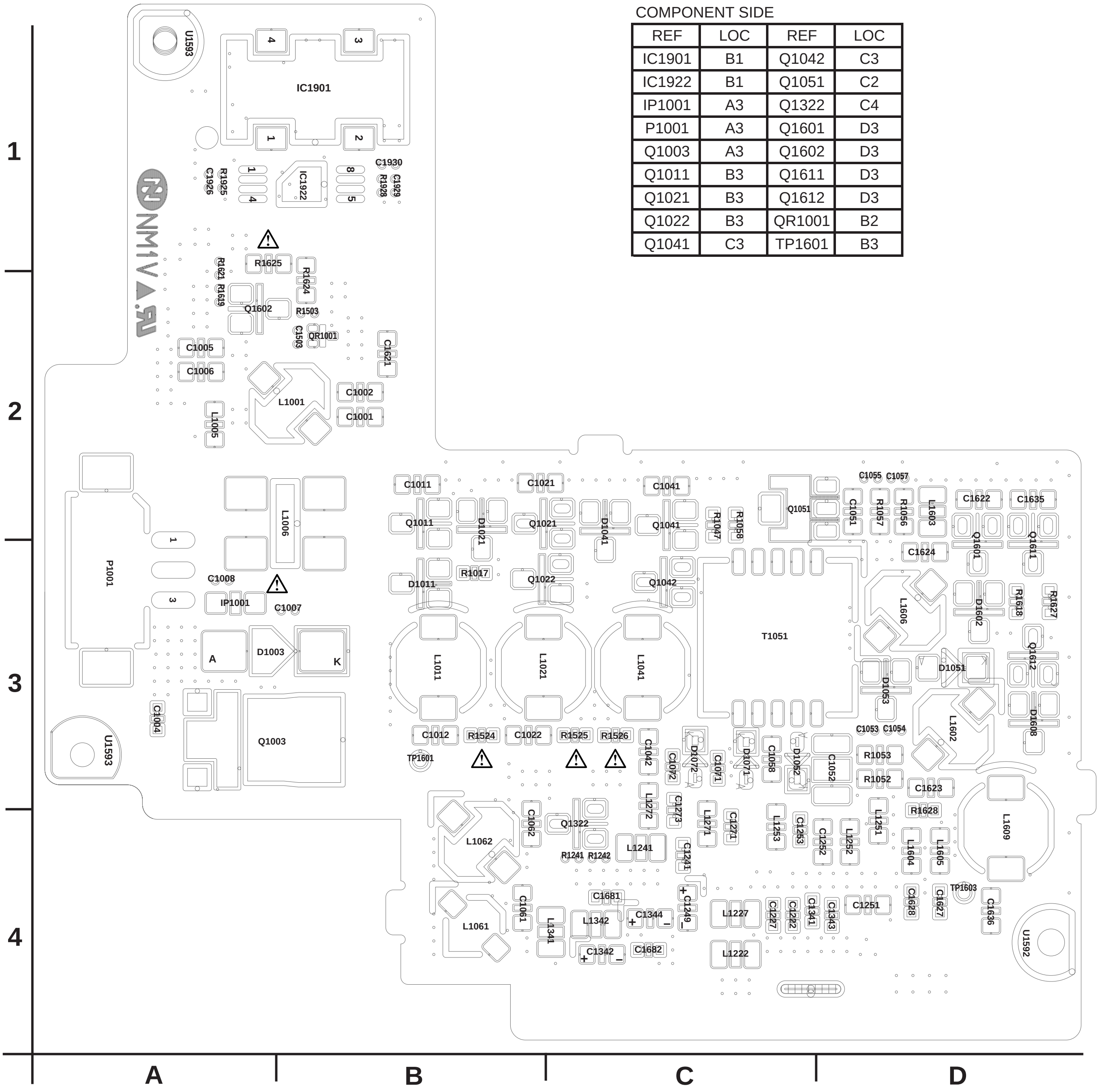
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

COMPONENT SIDE

REF	LOC	REF	LOC
IC1901	B1	Q1042	C3
IC1922	B1	Q1051	C2
IP1001	A3	Q1322	C4
P1001	A3	Q1601	D3
Q1003	A3	Q1602	D3
Q1011	B3	Q1611	D3
Q1021	B3	Q1612	D3
Q1022	B3	QR1001	B2
Q1041	C3	TP1601	B3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4
A
B
C
D
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IC1901
4
3
1
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R1925
C1926
IC1922
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5
C1930
R1928
C1929
NM1V
R1625
R1621
R1619
R1624
Q1602
R1503
C1503
QR1001
C1621
C1005
C1006
L1001
C1002
C1001
L1005
L1006
P1001
C1008
IP1001
C1007
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K
C1004
Q1003
U1593
C1011
Q1011
D1021
C1021
Q1021
D1041
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Q1041
R1047
R1058
Q1051
C1055
C1057
C1051
R1057
R1056
L1603
C1622
C1635
Q1601
Q1611
C1624
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R1017
Q1022
Q1042
T1051
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R1618
R1627
Q1612
D1051
D1053
L1011
L1021
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D1608
C1053
C1054
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C1012
R1524
C1022
R1525
R1526
TP1601
C1042
C1072
D1072
C1071
D1071
C1058
D1052
C1052
R1053
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C1623
R1628
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Q1322
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R1242
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C1227
C1222
C1341
C1343
C1251
C1628
C1627
TP1603
C1636
U1592
C1342
C1682
L1222

(COMPONENT SIDE)

SECTION 8

EXPLODED VIEWS
&
REPLACEMENT PARTS LIST

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
3. The P.C. Board unit marked with "■" shown below the main assembled parts.
4. The parts marked with Ⓔ on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
   After the discontinuation of this assembly in production, it will no longer be available.
7. "(M)" in Remark column indicates needed in the periodical maintenance.

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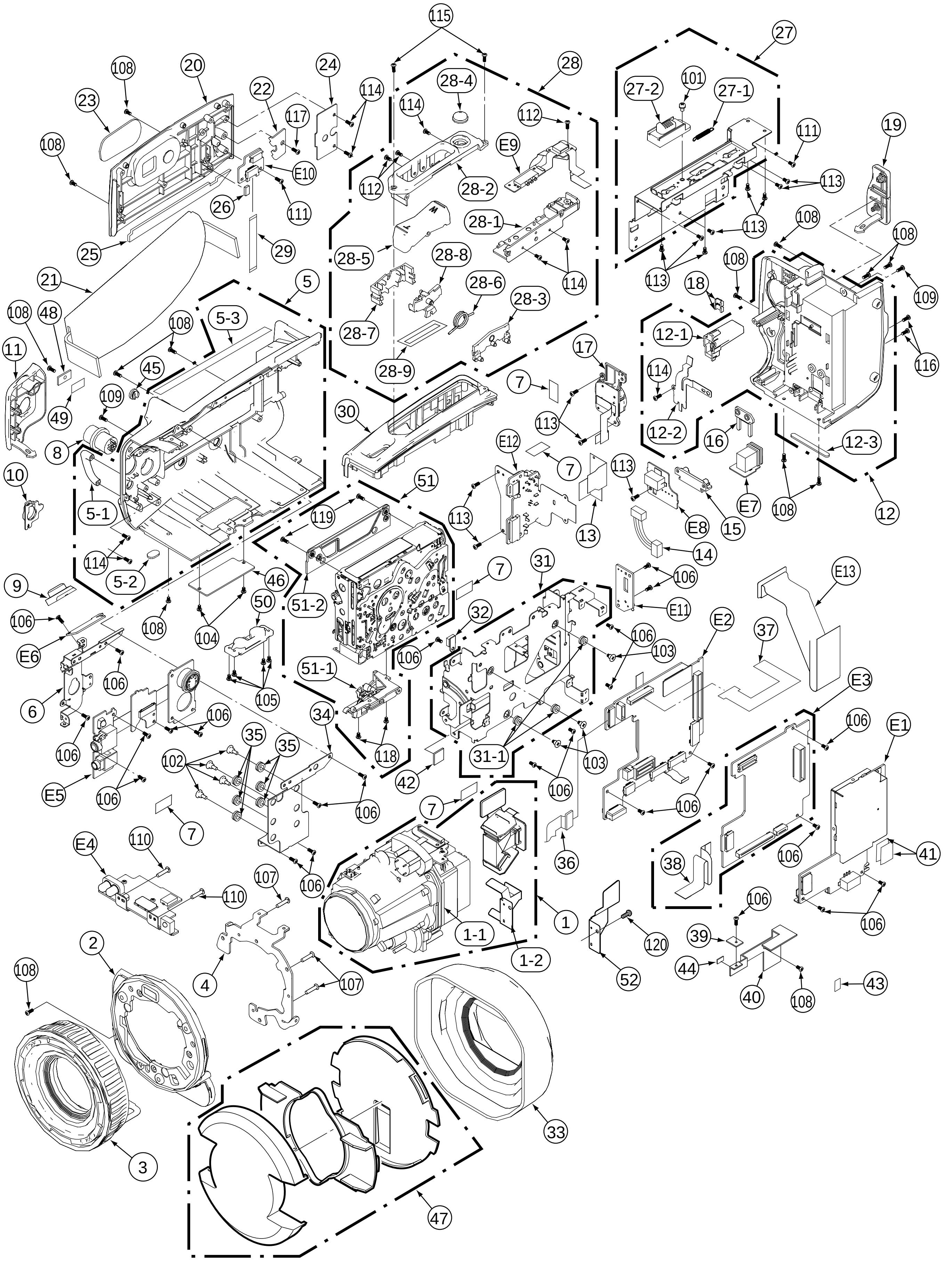
AG-DVC30P				AG-DVC30E, DVC32EN, DVC33MC			
Ref. No.	**Parts No.**	**C.B.A.**	**Page**	**Ref. No.**	**Parts No.**	**C.B.A.**	**Page**
E1	VEP01952A	POWER	EPL-1	E1	VEP01952A	POWER	EPL-15
E2	VEP03G60A	VTR	EPL-3	E2	VEP03G60B	VTR	EPL-17
E3	VEP23598A	CAMERA	EPL-7	E3	VEP23598B	CAMERA	EPL-21
E4	VEP06F67A	FRONT	EPL-11	E4	VEP06F67A	FRONT	EPL-25
E5	VEP04861A	SIDE JACK FPC	EPL-11	E5	VEP04861A	SIDE JACK FPC	EPL-25
E6	VEP001G1A	SUB REC	EPL-11	E6	VEP001G1A	SUB REC	EPL-25
E7	VEP01957A	DC IN	EPL-11	E7	VEP01957A	DC IN	EPL-25
E8	VEP01953A	BATTERY	EPL-11	E8	VEP01953A	BATTERY	EPL-25
E9	VEP06F66A	ZOOM FPC	EPL-12	E9	VEP06F66A	ZOOM FPC	EPL-26
E10	VEP001E3A	ZOOM CON	EPL-12	E10	VEP001E3A	ZOOM CON	EPL-26
E11	VEP001E5A	CAS OPEN	EPL-12	E11	VEP001E5A	CAS OPEN	EPL-26
E12	VEP04863A	REAR JACK	EPL-12	E12	VEP04863A	REAR JACK	EPL-26
E13	VEP001E8A	R-SIDE FPC	EPL-12	E13	VEP001E8A	R-SIDE FPC	EPL-26
E14	VEP06F68A	R-SIDE	EPL-12	E14	VEP06F68A	R-SIDE	EPL-26
E15	VEP06F64A	CAMARA OP	EPL-12	E15	VEP06F64A	CAMARA OP	EPL-26
E16	VEP001E1A	LCD OPEN	EPL-12	E16	VEP001E1A	LCD OPEN	EPL-26
E17	VEP001E4A	TALLY	EPL-12	E17	VEP001E4A	TALLY	EPL-26
E18	VEP001E0A	EVF CON	EPL-12	E18	VEP001E0A	EVF CON	EPL-26
E19	VEP04828A	MIC U	EPL-13	E19	VEP04828A	MIC U	EPL-27
E20	VEP28272B	EVF A	EPL-13	E20	VEP28272B	EVF A	EPL-27
E21	VEP28275B	EVF B	EPL-13	E21	VEP28275B	EVF B	EPL-27
E22	VEP001G2A	MENU FPC	EPL-13	E22	VEP001G2A	MENU FPC	EPL-27
E23	VEP26257B	MONITOR	EPL-13	E23	VEP26257B	MONITOR	EPL-27

SERVICING FIXTURES & TOOLS

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFM3010EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	NTSC MODEL ONLY
2	VFM3110EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	PAL MODEL ONLY
3	VFM3000EDS	DV ALIGNMENT TAPE (LINEARITY)	1	
4	VFK1217	TAPE END/BEG DETECT CASSETTE	1	
8	VFK1308P	MEASURING BOARD	1	
9	VFK1309A	EVR CONNECTOR BOARD	1	
10	VFK1763	CONNECTOR ADAPTER	1	
11	VJA0941	DC CABLE	2	K2GY2DZ00003
12	VFK1317	30PIN FLAT CABLE	2	
13	VFK1164TAR43	43MM ATTACHMENT RING]	1	
14	VFK1164TCM01	COLLIMATOR SET	1	(INFINITY LENS)
15	VFK1345	CC FILTER HOLDER	1	
16	VFK1346	STEP DOWN RING	1	
17	VFK1659	STEP-UP RING	1	(43MM-49MM)
18	VFK1660	STEP-UP RING	1	(49MM-62MM)
19	VFK1341	CC FILTER (LB40)	1	NTSC MODEL ONLY
20	VFK1342	CC FILTER (LB80)	1	PAL MODEL ONLY
21	VFK1347	CC FILTER (LB120)	1	
22	VFK1884	CC FILTER (LBA2)	1	
23	VFK1888	CC FILTER (LBB6)	1	
24	VFK1885	CC FILTER (LBB2)	1	NTSC MODEL ONLY
25	VFK1886	CC FILTER (CC C10)	1	PAL MODEL ONLY
26	VFK1887	CC FILTER (CC C20)	1	PAL MODEL ONLY
27	VFK1409A	MEASURING BOARD	1	
28	VFK1899	POST DRIVER	1	
29	VFK1810	LISTA MEASURING BOARD	1	
30	VFK1186	LISTA CABLE	1	
31	VFK1300	A/D CONVERTER BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

FRAME & CASING PARTS ASSEMBLY (1)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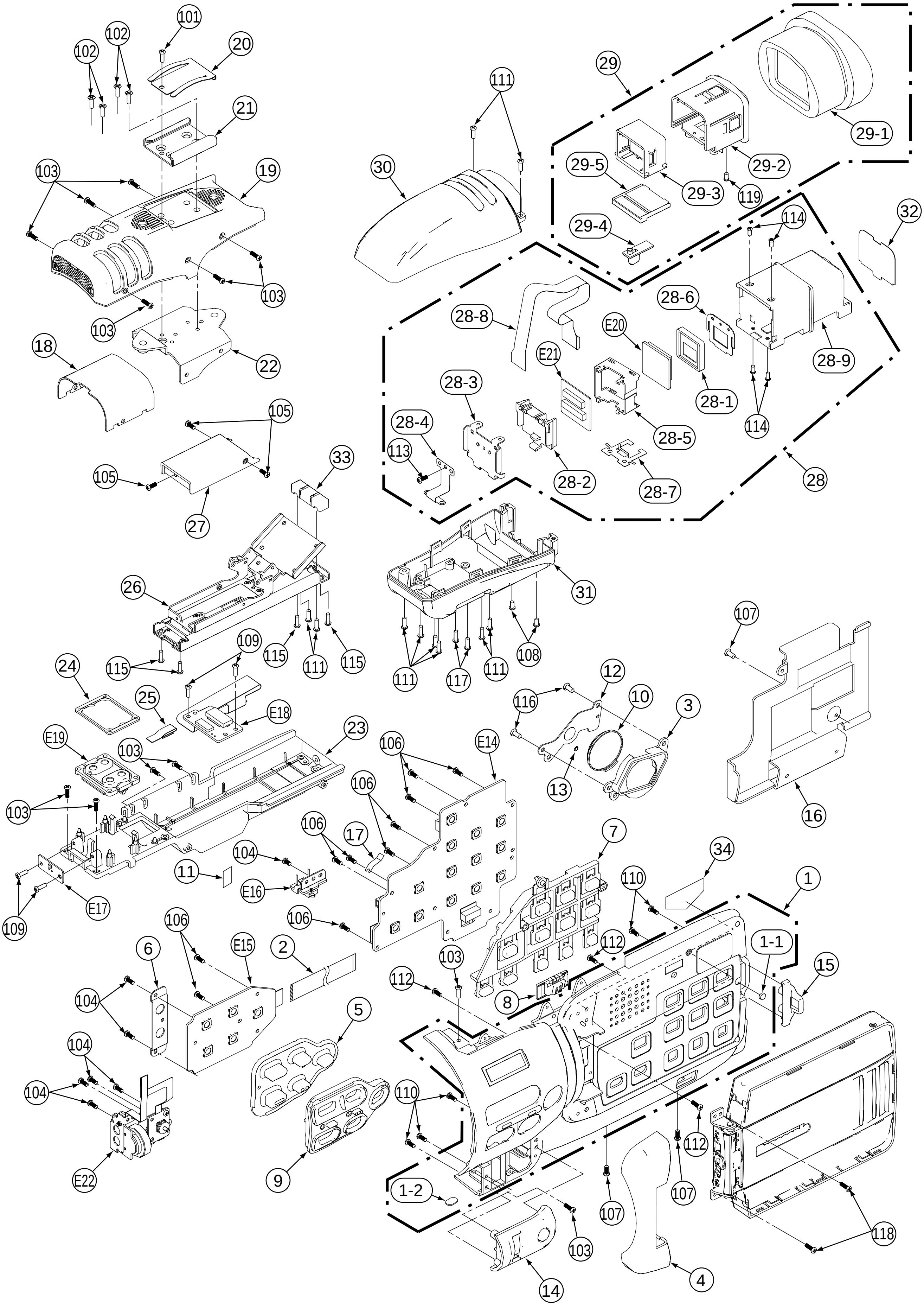
FRAME & CASING PARTS ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXW0663/S	CAMERA LENS U	1	FOR AG-DVC30P
1	VXW0665/S	CAMERA LENS U	1	FOR AG-DVC30E/32EN/33MC
1-1	VXW0664	LENS U	1	
1-2	VGQ7875	HEAT SINK	1	
2	VYK1F22	FRONT CASE 1 U	1	
3	VXP2362	MF U	1	
4	VMP8012	FRONT BASE	1	
5	VYK1F32	SIDE CASE L 1 U	1	
5-1	VGQ6966	GLIP BELT PIECE	1	
5-2	VKA0319	GLIP DUSTPROOF RUBBER (F)	1	
5-3	VMT1609	SIDE (L) GASKET	1	
6	VMP8002	SIDE JACK FRAME	1	
7	VMZ3316	MONITOR FPC PROTECT SHEET	5	
8	VEE0Z36	MINI XLR HARNESS	1	
9	VGU9630	S/S BUTTON	1	
10	VGQ7941	MIC JACK COVER	1	
11	VJF1493	SIDE JACK COVER	1	
12	VYK1F36	REAR CASE 1 U	1	
12-1	VGU9617	BATTERY LOCK BUTTON	1	
12-2	VMC1804	BATTERY LOCK SPRING	1	
12-3	VKA0340	GLIP DUSTPROOF RUBBER	1	
13	VWJ1715	REAR FPC	1	
14	VEE0Z33	BATTERY HARNESS	1	
15	K4ZZ04000032	TERMINAL	1	
16	VMP7340	DCIN ANGLE	1	
17	N9ZZ00000252	S/S U	1	
18	VKW3222	MODE PANEL LIGHT	2	
19	VJF1494	REAR JACK COVER	1	
20	VGP6061	CASETTE COVER (L)	1	
21	VFB0218	HAND STRAP	1	
22	VMP8007	GLIP BELT FIX ANGLE	1	
23	VGH4759	CASSETTE COVER WINDOW	1	FOR AG-DVC30P
23	VGH4760	CASSETTE COVER WINDOW	1	FOR AG-DVC30E/32EN/33MC
24	VGF0998	BLIND PLATE	1	
25	VMT1574	CASSETTE COVER GASKET	1	
26	VMT1610	GYRO PCB CUSHION	1	
27	VXA7822	CASSETE COVER ROCK U	1	
27-1	VMB3680	EJECT LOCK BUTTON SPRING	1	
27-2	VGQ7943	EJECT BUTTON	1	
28	VYQ3026	ZOOM SW U	1	
28-1	VGQ7942	ZOOM LEVER CASE (R)	1	
28-2	VGQ6904	ZOON LEVER CASE (L)	1	
28-3	VGQ6928	ZOOM SW HOLDER	1	
28-4	VGU9203	REC CHECK RUBBER BUTTON	1	
28-5	VGU9215	ZOOM LEVER	1	
28-6	VMB3663	COIL SPRING ZOOM	1	
28-7	VGQ6996	ZOOM HOLDER (R)	1	
28-8	VGQ6997	ZOOM SPRING HOLDER PIECE	1	
28-9	VMZ3406	ZOOM PCB BLIND SHEET	1	
29	VWJ1742	ZOOM FFC	1	
30	VGP6060	CASSETTE COVER (U)	1	
31	VXK1788	MECHA ATTACH FRAME 1 U	1	
31-1	VMG1107	MECH DUMPER RUBBER	3	
32	L2B000000001	SENSOR UNIT	1	
33	VYF2982	HOOD U	1	
34	VMP8001	LENS FRAME	1	
35	VMG1463	DUSTPROOF RUBBER	6	
36	VWJ1713	SIDE JACK FPC	1	
37	VWJ1714	EVF CN FPC	1	
38	VWJ16E5110L0	FFC CABLE	1	
39	VSC5621	CCD CON SHIELD	1	
40	VSC5622	CCD CON STOPPER	1	
41	VGQ8091	COOLING SHEET P	2	
42	VGQ8093	COOLING SHEET M	1	
43	VGQ8094	COOLING SHEET CR	1	
44	VMZ3465	CD CON CUSHION	1	
45	VKF3415	MECHA COVER (L)	1	
46	VGQ5988	EVR COVER	1	
47	VYK0Z96	LENS CAP U	1	
48	VGP6074	MECHA COVER (R)	1	
49	VGF1009	MECHA COVER SHEET	1	
50	VMD5058	TRIPOD BASE	1	
51	VXY1843	MECHA CHASSIS U	1	
51-1	VML3876	CLEANING ROLLER U	1	
51-2	VGQ7971	GARAGE COVER	1	
52	VMA0S43	CONNECTION PLATE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
101	DXYN2+J4FNNT	SCREW	1	
102	VHD1132	SCREW	4	
103	VHD1133	SCREW	3	
104	VHD1451	SCREW	2	
105	VHD1601	SCREW	4	
106	XQN16+B3FN	SCREW	25	
107	XYN2+J8	SCREW	3	
108	XQN16+B4FZ	SCREW	14	
109	XQN16+B5FZ	SCREW	2	
110	XQN16+BJ35FN	SCREW	2	
111	XQN16+BJ3FN	SCREW	2	
112	XQN16+BJ3FZ	SCREW	3	
113	XQN16+BJ4FN	SCREW	13	
114	XQN16+BJ4FZ	SCREW	8	
115	XQN16+BJ6FZ	SCREW	2	
116	XQN2+B4FZ	SCREW	2	
117	XTB26+6GFZ	SCREW	1	
118	XQN14+B25	SCREW	2	
119	XQN16+B22FZ	SCREW	2	
120	XQN16+CJ4	SCREW	1	
E1	VEP01952A	POWER C.B.A.	1	
E2	VEP03G60A	VTR C.B.A.	1	FOR AG-DVC30P
E2	VEP03G60B	VTR C.B.A.	1	FOR AG-DVC30E/32EN/33MC
E3	VEP23598A	CAMERA C.B.A.	1	FOR AG-DVC30P
E3	VEP23598B	CAMERA C.B.A.	1	FOR AG-DVC30E/32EN/33MC
E4	VEP06F67A	FRONT C.B.A.	1	
E5	VEP04861A	SIDE JACK FLEX C.B.A.	1	
E6	VEP001G1A	SUB REC C.B.A.	1	
E7	VEP01957A	DC IN C.B.A.	1	
E8	VEP01953A	BATTERY C.B.A.	1	
E9	VEP06F66A	ZOOM FLEX C.B.A.	1	
E10	VEP001E3A	ZOOM CON C.B.A.	1	
E11	VEP001E5A	CAS OPEN C.B.A.	1	
E12	VEP04863A	REAR JACK C.B.A.	1	
E13	VEP001E8A	R-SIDE FLEX C.B.A.	1	

FRAME & CASING PARTS ASSEMBLY (2)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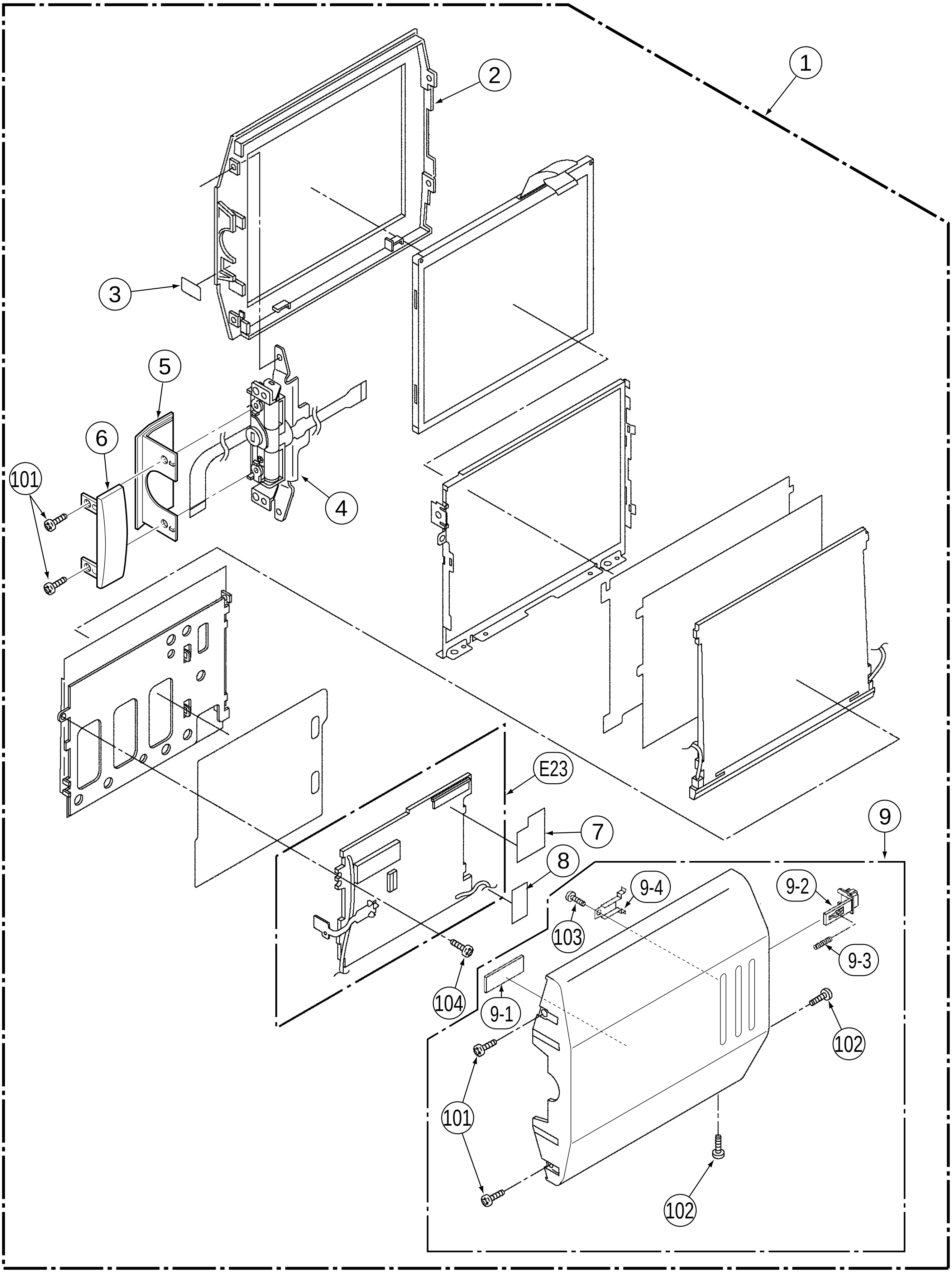
FRAME & CASING PARTS ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1F30	SIDE CASE R 1 U	1	
1-1	VMT1547	LCD CUSHION	1	
1-2	VKA0319	GLIP DUSTPROOF RUBBER (F)	1	
2	VWJ16E5080L0	FLAT CABLE	1	
3	VGQ6897	SPEAKER HOLDER	1	
4	VGP6064	HINGE COVER	1	
5	VGU9618	CAM BUTTON	1	
6	VMP8019	CAMERA PCB FRAME	1	
7	VGU9619	VTR BUTTON	1	
8	VGU9620	A/M KNOB	1	
9	VGQ7939	CAM BUTTON HOLDER	1	
10	VEK9842	SPEAKER ASS'Y	1	
11	VMZ3316	MONITOR FPC PROTECT SHEET	1	
12	VMP7330	SPEAKER HOLDER ANGLE	1	
13	VMT1347	SPEAKER HOLDER CUSHION	1	
14	VYP8947	MENU PANEL U	1	
15	VGQ7940	LCD LOCK BASE	1	
16	VSC5625	HEAT SINK (SIDE R)	1	
17	VMC1936	KNOB HOLD FRAME	1	
18	VYQ3027	MIC NET U	1	
19	VYK1F42	MIC CASE 1 U	1	
20	VMC1931	SPRING	1	
21	VJF1504	SHOE	1	
22	VMP8023	SHOE HOLD ANGLE	1	
23	VYK1F34	TOP CASE 1 U	1	
24	VGQ6352	DUMPER HOLDER PIECE	1	
25	VWJ07E5030L0	FFC CABLE	1	
26	VXA7804	EVF SLIDE U	1	
27	VKF3890	EVF SLIDE COVER	1	
28	VYQ3024	EVF LCD HOLDER U	1	
28-1	L5BDDXE00001	ACTIVE MATRIX LCD PANEL	1	
28-2	VGQ6927	EVF COVER	1	
28-3	VMP7360	EVF COVER ANGLE	1	
28-4	VMC1919	EVF EARTH SPRING	1	
28-5	VMX2967	PB SPACER	1	
28-6	VGQ7088	LCD MASK	1	
28-7	VMC1612	EVF EARTH SPRING	1	
28-8	VWJ1716	EVF FPC	1	
28-9	VGQ7947	EVF LCD CASE	1	
29	VYK8120	EYE CAP HOLDER U	1	
29-1	VMG1100	EYE CAP	1	
29-2	VGQ4586	EYE CAP HOLDER	1	
29-3	VYQ1445	LENS HOLDER	1	
29-4	VGU7612	EYE SIGHT KNOB	1	
29-5	VGQ4588	KNOB GUIDE	1	
30	VYK1F24	EVF TOP CASE U	1	
31	VGP6063	EVF CASE (UNDER)	1	
32	VGQ7948	EVF LCD FILTER	1	
33	VGF1001	TOP BLINDFOLD PIECE	1	
34	VGQ8092	COOLING SHEET R	1	
101	DXSN2+4FCNT	SCREW	1	
102	DXSS2+5FZNT	SCREW	4	
103	XQN16+B5FZ	SCREW	12	
104	XQN16+B3FN	SCREW	7	
105	XQN16+B3FZ	SCREW	3	
106	XQN16+B4FN	SCREW	10	
107	XQN16+B4FZ	SCREW	3	
108	XQN16+BJ3FZ	SCREW	2	
109	XQN16+BJ4FN	SCREW	4	
110	XQN16+BJ4FZ	SCREW	5	
111	XQN16+BJ5FZ	SCREW	10	
112	XQN16+BJ6FZ	SCREW	4	
113	XQN16+C25FZ	SCREW	1	
114	XQN16+C3	SCREW	4	
115	XQN2+A5FZ	SCREW	4	
116	XQN2+C5	SCREW	2	
117	XQS16+AJ5FZ	SCREW	2	
118	XYN2+C5	SCREW	2	
119	XQN16+BJ3FN	SCREW	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E14	VEP06F68A	R-SIDE C.B.A.	1	
E15	VEP06F64A	CAMERA OP C.B.A.	1	
E16	VEP001E1A	LCD OPEN C.B.A.	1	
E17	VEP001E4A	TALLY C.B.A.	1	
E18	VEP001E0A	EVF CON C.B.A.	1	
E19	VEP04828A	MIC C.B.A.	1	
E20	VEP28272B	EVF A C.B.A.	1	
E21	VEP28275B	EVF B C.B.A.	1	
E22	VEP001G2A	MENU FLEX C.B.A.	1	

LCD PARTS ASSEMBLY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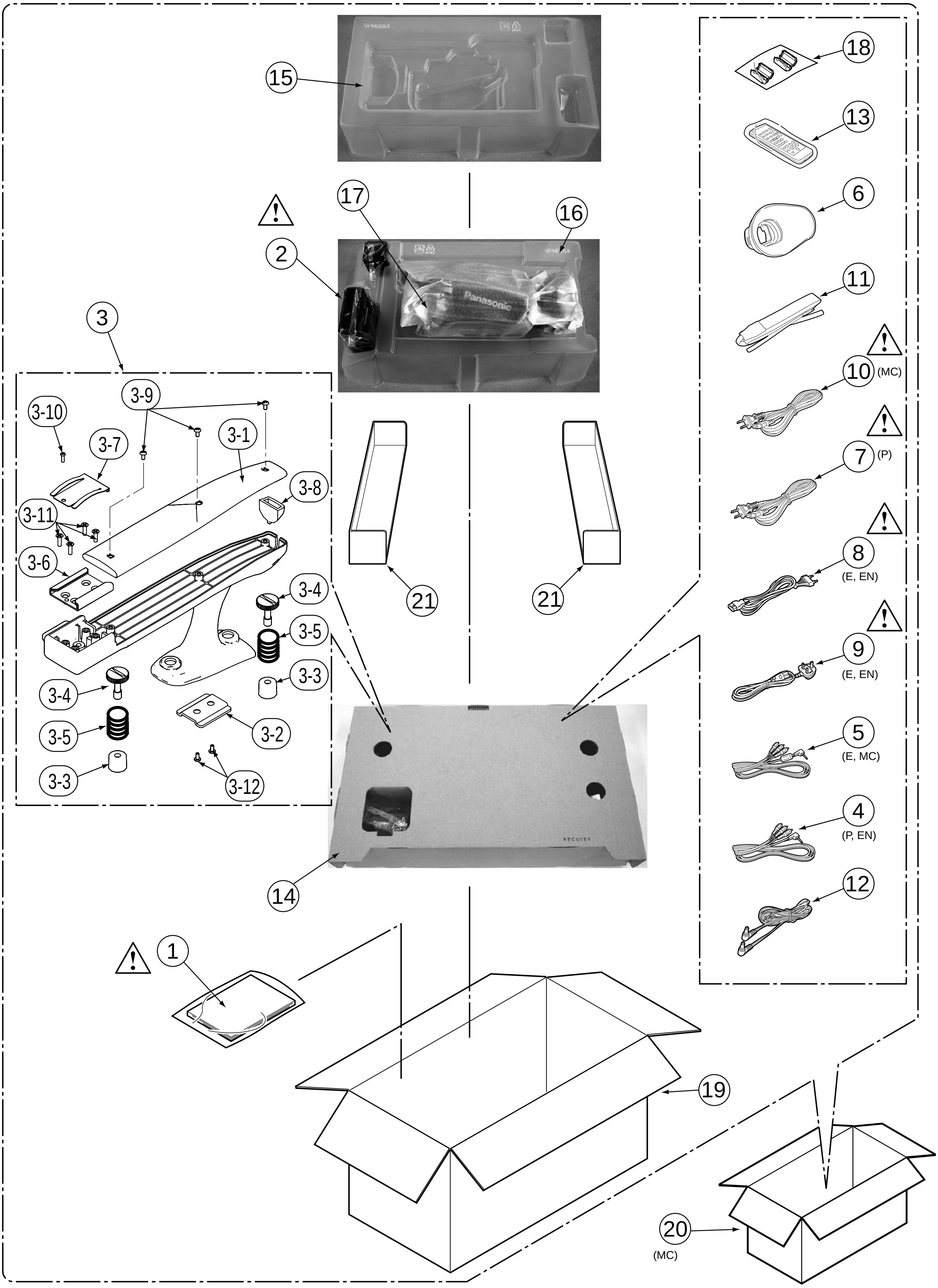
LCD PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK1F09S	LCD U	1	FOR AG-DVC30P/E
1	VYK1J18	LCD U	1	FOR AG-DVC32EN
1	VYK1F19S	LCD U	1	FOR AG-DVC33MC
2	VKM6484	LCD CASE (BOTTOM)	1	
3	VGQ4758	BLIND SHEET (A)	1	
4	VXD0424S	LCD HINGE U	1	
5	VGQ7950	HINGE CASE (BOTTOM)	1	
6	VGQ7949	HINGE CASE (TOP)	1	
7	VGQ6644	BARRIER (LCD)	1	
8	VGQ6286	LCD BARRIER	1	
9	VYK1F27S	LCD CASE (TOP) U	1	FOR AG-DVC30P/E
9	VYK1J19	LCD CASE (TOP) U	1	FOR AG-DVC32EN
9	VYK1F28S	LCD CASE (TOP) U	1	FOR AG-DVC33MC
9-1	VGQ6290	LCD CUSHION	1	
9-2	VGQ7951	LCD LOCK PIECE	1	
9-3	VMB3217	LCD LOCK SPRING	1	
9-4	VMP6292	LOCK PIECE FIX ANGLE	1	
101	VHD1451	SCREW	4	
102	XQN16+B25FN	SCREW	2	
103	XQS16+AJ3	SCREW	1	
104	XQN16+B2FN	SCREW	1	
E23	VEP26257B	MONITOR C.B.A.	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.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PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
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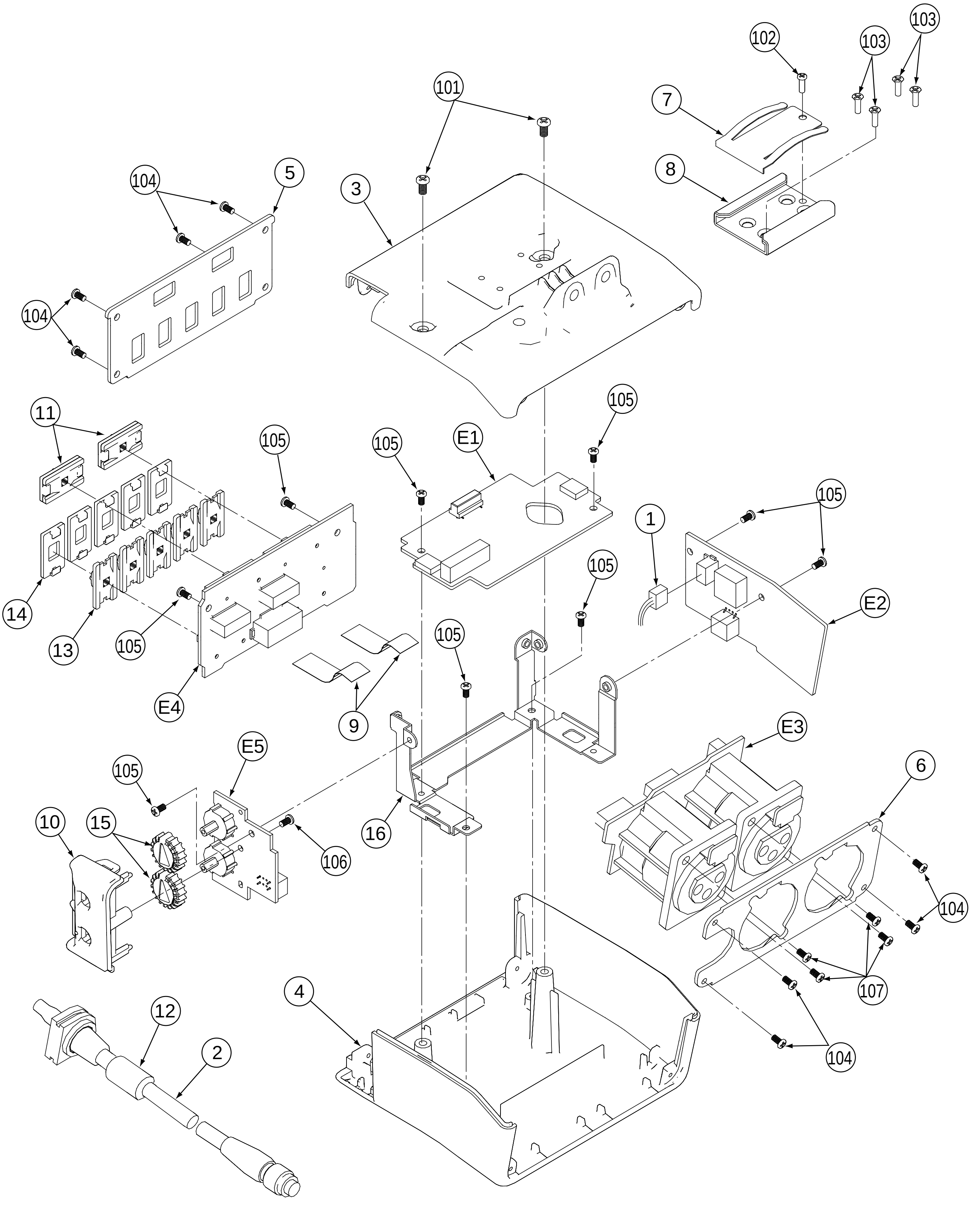
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VQT0J25	OPERATING INSTRUCTIONS	1	FOR AG-DVC30P
⚠ 1	VQT0J26	OPERATING INSTRUCTIONS	1	FOR AG-DVC30E
⚠ 1	VQT0L09	OPERATING INSTRUCTIONS	1	FOR AG-DVC32EN
⚠ 1	VQT0J27	OPERATING INSTRUCTIONS	1	FOR AG-DVC33MC
⚠ 2	DE-852DB	AC ADAPTOR	1	FOR AG-DVC30P
⚠ 2	DE-811DB	AC ADAPTOR	1	FOR AG-DVC30E/32EN
⚠ 2	DE-811FB	AC ADAPTOR	1	FOR AG-DVC33MC
3	VYH0312	HANDLE U	1	
3-1	VGQ7970	HANDLE COVER	1	
3-2	VGM2084	HANDLE SPACER	1	
3-3	VMG1627	HANDLE HOLD RUBBER	2	
3-4	VHD1661	HANDLE HOLD SCREW	2	
3-5	VMB3894	HANDLE SCREW FLAT SPRING	2	
3-6	VJF1504	SHOE	1	
3-7	VMC1931	SPRING	1	
3-8	VMG1628	HANDLE CUSHION RUBBER	1	
3-9	XQN2+A5FZ	SCREW	3	
3-10	DXSN2+4FCNT	SCREW	1	
3-11	DXSS2+4FZNT	SCREW	4	
3-12	DXSS3+6FZNT	SCREW	2	
4	K2KC4CB00009	AV CABLE	1	FOR AG-DVC30P/32EN
5	VYC0922	AV CABLE	1	FOR AG-DVC30E/33MC
6	VMG1370	EYE CAP	1	
⚠ 7	K2CB2CB00006	POWER CORD	1	FOR AG-DVC30P
⚠ 8	K2CR2DA00005	POWER CORD	1	FOR AG-DVC30E/32EN
⚠ 9	K2CT3DA00001	POWER CORD	1	FOR AG-DVC30E/32EN
⚠ 10	K2CA2DA00030	POWER CORD	1	FOR AG-DVC33MC
11	VFC3891	SHOULDER BELT	1	
12	K2GJ2DC00002	DC CORD	1	
13	VFA0402	WIRELESS REMOTE CONTROL	1	
14	VPG0Y21	ACCESSORY BOX	1	
15	VPN6164	CUSHION (B)	1	
16	VPN6163	CUSHION (T)	1	
17	VPF1218	PROTECTION BAG	1	
18	J0KG00000013	CORE	2	FOR AG-DVC30E/32EN/33MC
19	VPG0Y08	PACKING CASE (P) B	1	FOR AG-DVC30P
19	VPG0Y09	PACKING CASE (P) B	1	FOR AG-DVC30E
19	VPG0Z57	PACKING CASE (P) B	1	FOR AG-DVC32EN
19	VPG0Y11	PACKING CASE (P) B (IN)	1	FOR AG-DVC33MC
20	VPG0Y10	PACKING CASE (OUT)	1	FOR AG-DVC33MC
21	VPN6237	PARTITION PLATE	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

CABINET PARTS ASSEMBLY (AG-MYA30G)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CABINET PARTS ASSEMBLY (AG-MYA30G)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VEE0Z45	POWER CABLE	1	
2	VEC0993	MINI XLR CABLE	1	
3	VGM2081	XLR BOX TOP-CASE	1	
4	VGM2082	XLR BOX BOTTOM CASE	1	
5	VMP8010	SLIDE SW NAME PLATE	1	
6	VMP8011	XLR NAME PLATE	1	
7	VMC1931	SPRING	1	
8	VJF1504	SHOE	1	
9	VWJ13E5045L0	FLEXIBLE CABLE	2	
10	VGQ8088	VR COVER	1	
11	VYQ3166	SLIDE TSUMAMI (L)U	2	
12	J0KG00000046	FERRITE CORE	1	
13	VGU9214	SLIDE KNOB	5	
14	VMG1460	SLIDE SW RUBBER COVER	5	
15	VGU9641	AUDIO VR KNOB	2	
16	VMP8039	BOX PCB ANGLE	1	
101	XQN26+A5FZ	SCREW	2	
102	XQN2+C2FN	SCREW	1	
103	XSS2+4FZ	SCREW	4	
104	XQN16+B3FZ	SCREW	8	
105	XQN16+B25FN	SCREW	9	
106	XQN16+BJ4FN	SCREW	1	
107	XYN26+A6FZ	SCREW	4	
E1	VEP04875A	MAIN C.B.A.	1	
E2	VEP01956A	POWER C.B.A.	1	
E3	VEP04869A	XLR C.B.A.	1	
E4	VEP04870A	SW C.B.A.	1	
E5	VEP04871A	VR C.B.A.	1	

PACKING PARTS ASSEMBLY (AG-MYA30G)

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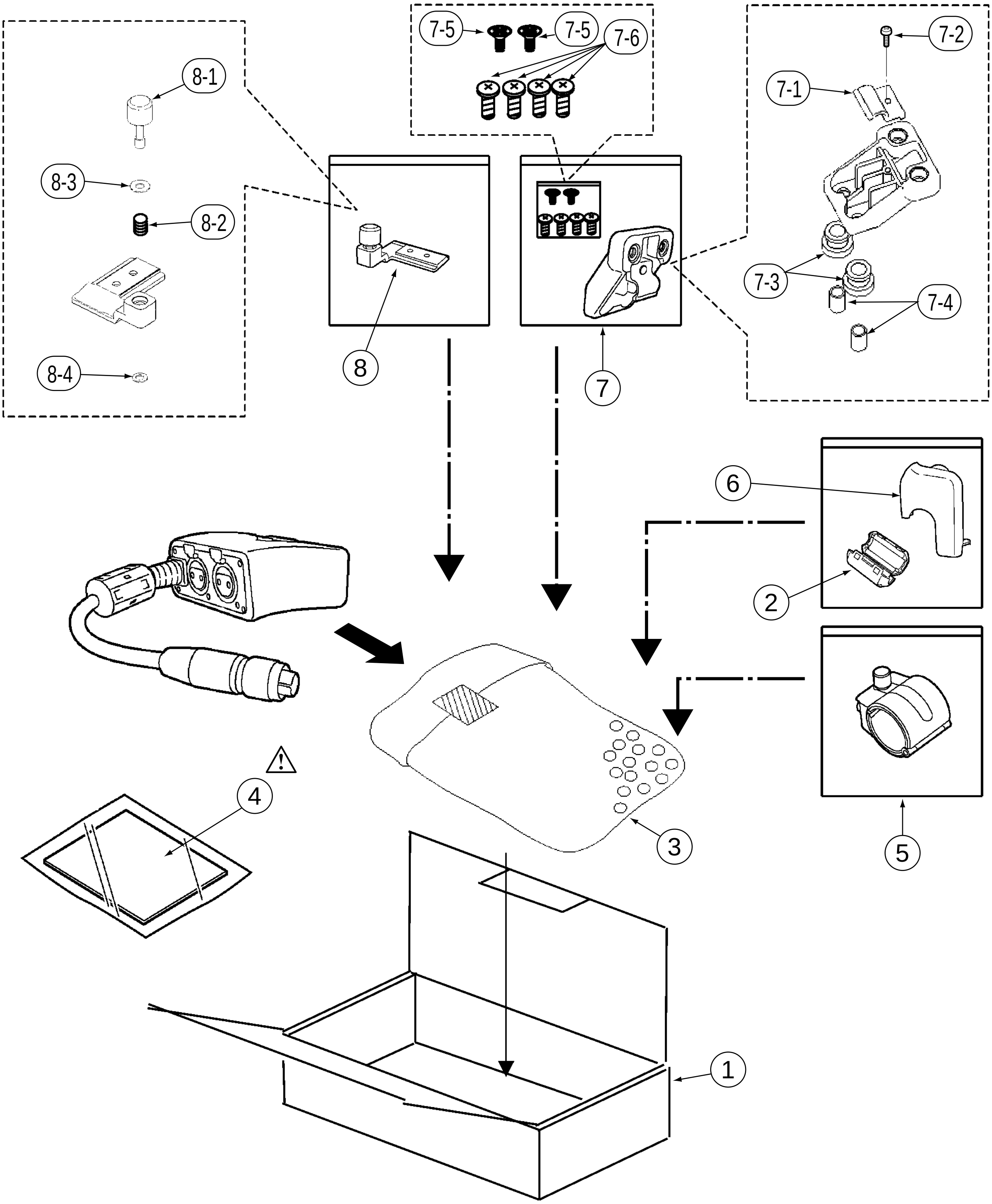
When replacing any of these components, use only the same type.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PACKING PARTS ASSEMBLY (AG-MYA30G)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG0Z18	PACING CASE	1	
2	J0KG00000046	FERRITE CORE	1	
3	VPF1219	CUSHION BAG	1	
⚠ 4	VQT0K50	OPERATING INSTRUCTIONS	1	
5	VYC0870	MIC HOLDER U	1	
6	VJF1497	SIDE JACK COVER(XLR)	1	
7	VYC0920	MIC ADAPTOR U	1	
7-1	VJF0804	CABLE CLAMPER	1	
7-2	XQN2+CJ6FZ	SCREW	1	
7-3	VMG1189	RUBBER BUSH	2	
7-4	VMX2835	SPACER	2	
7-5	XSS3+6FZ	SCREW	2	
7-6	XSB4+12FXKS	SCREW	4	
8	VYQ3157	BOX HOLD ANGLE U	1	
8-1	VHD1669	BOX HOLD SCREW	1	
8-2	VMB3900	BOX SCREW SPRING	1	
8-3	VMX3416	HOLD ANGLE WASSYA UPEER	1	
8-4	VMX3417	HOLD ANGLE WASSYA LOWER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

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ELECTRICAL REPLACEMENT PARTS LIST

AG-DVC30P

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
■ E2	VEP03G60A	VTR C.B.A.	1	(RTL)
■ E3	VEP23598A	CAMERA C.B.A.	1	(RTL)
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
■ E6	VEP001G1A	SUB REC C.B.A.	1	(RTL)
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
C1001,02	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1004	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1005,06	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1007-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1011	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1012	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1021	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1022	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1041	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1042	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1051	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1052	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1053-55	F1G1H2210001	C.CAPACITOR CH 50V 220P	3	
C1057	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1058	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1061,62	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C1063,64	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071,72	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1102	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1103	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1106	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C1112	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1113	F1G1C333A004	C.CAPACITOR CH 16V 0.033U	1	
C1115	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1123	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1126	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1142	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1145	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1146	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1151	ECJ1ZB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1152	ECUX1E473KBV	C.CAPACITOR CH 25V 0.047U	1	
C1154	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1157	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1221-24	F1H1A105A028	C.CAPACITOR CH 10V 1U	4	
C1226,27	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1249	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1251,52	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	2	
C1253	F1H1E154A050	C.CAPACITOR CH 25V 0.15U	1	
C1271	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1273	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1322,23	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1328	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1341	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1342	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1343	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1344	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1503	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1603	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1604	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1605	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C1606	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1608	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1610	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1615	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1616	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1619	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1620	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1621	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1622	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1623	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1627,28	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C1635	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1636	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1901	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C1902	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C1911,12	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1925	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1927	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1929	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1931	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1003	NSD03A20	DIODE	1	
D1005	MA8130-M	DIODE	1	
D1011	B0JCMC000004	DIODE	1	
D1021	B0JCMC000004	DIODE	1	
D1041	B0JCMC000004	DIODE	1	
D1051	MA2YD1700L	DIODE	1	
D1052	MA2Z00100L	DIODE	1	
D1071	MA111	DIODE	1	
D1072	MA2Z00100L	DIODE	1	
D1101	MA8100-M	DIODE	1	
D1102	MA2S11100L	DIODE	1	
D1131	MA2S11100L	DIODE	1	
D1251	MAZ81800HL	DIODE	1	
D1252	MA2S11100L	DIODE	1	
D1528	MA2S11100L	DIODE	1	
D1602	B0JCMC000004	DIODE	1	
D1608	B0JCMC000004	DIODE	1	
D1610	MA2S11100L	DIODE	1	
D1681	B0ADDJ000011	DIODE	1	
D1682	MA2S11100L	DIODE	1	
D1683	MAZ80620HL	DIODE	1	
D1684	MA3S132E0L	DIODE	1	
D1685	B0BC4R200013	DIODE	1	
IC1001	C0DBAZZ00064	IC	1	
IC1321	C0CBCAC00061	IC	1	
IC1601	C0DBAZZ00064	IC	1	
IC1901	L2ES00000010	SENSOR UNIT	1	FOR VEP001G8A
IC1922	C0ABBA000077	IC	1	
IC1923	C0JBAS000063	IC	1	
⚠ IP1001	K5H3122A0022	FUSE	1	
⚠ IP1003	K5H8011A0004	FUSE	1	
L1001	G1C3R9MA0024	COIL 3.9UH	1	
L1005	J0JHC0000018	FILTER	1	
L1006	J0MAB0000060	FILTER	1	
L1011	G1C330MA0011	COIL 33UH	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1041	G1C330MA0011	COIL 33UH	1	
L1061	G1C330MA0085	COIL 33UH	1	
L1062	G1C181MA0024	COIL 180UH	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0072	COIL 4.7UH	2	
L1221	G1C4R7MA0072	COIL 4.7UH	1	
L1222	G1C4R7MA0073	COIL 4.7UH	1	
L1223,24	G1C4R7MA0076	COIL 4.7UH	2	
L1226,27	G1C4R7MA0073	COIL 4.7UH	2	
L1241	G1C4R7MA0072	COIL 4.7UH	1	
L1251-53	G1C100KA0055	COIL 10UH	3	
L1271,72	G1C100KA0055	COIL 10UH	2	
L1321,22	G1C4R7MA0076	COIL 4.7UH	2	
L1341,42	G1C4R7MA0073	COIL 4.7UH	2	
L1602	G1C331M00006	COIL 330UH	1	
L1604,05	G1C4R7MA0076	COIL 4.7UH	2	
L1609	A921CY-470M	FILTER	1	
L1610	J0JAC0000011	FILTER	1	
L1612	J0JAC0000011	FILTER	1	
L1901	G1C100K00019	COIL 10UH	1	
L1922,23	G1C100K00019	COIL 10UH	2	
P1001	K1KA03A00462	CONNECTOR (MALE)	1	
P1011	K1KA80A00037	CONNECTOR	1	
Q1003	B2ABGP000001	THYRISTOR	1	
Q1011	B1DHCC000035	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1021	B1DHCC000035	TRANSISTOR	1	
Q1022	B1DFCD000012	TRANSISTOR	1	
Q1041	B1DHCC000035	TRANSISTOR	1	
Q1042	B1DFCD000012	TRANSISTOR	1	
Q1051	B1DFCG000011	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1601,02	B1DHCC000035	TRANSISTOR	2	
Q1611	B1DHCC000035	TRANSISTOR	1	
Q1612	B1DFCD000012	TRANSISTOR	1	
QR1001	UNR9113J0L	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UNR911DJ0L	TRANSISTOR	1	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602,03	UN9213	TRANSISTOR-RESISTOR	2	
QR1681	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1005	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1017	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1047	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1052,53	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R1056,57	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	D0GD220JA003
R1058	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R1105	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1106	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1107	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1108,09	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	2	
R1111	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1115	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1117	ERJ2RKD680	M.RESISTOR CH 1/16W 68	1	
R1119	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1121	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1125	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1126	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1127	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1128,29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1141	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1145	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1146	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1147	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1148,49	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1151	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1152	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1153	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1154	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1157	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1158	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1159	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1241	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1251	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1503	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
⚠ R1524	K5H6312A0008	FUSE	1	
⚠ R1525	K5H1222A0008	FUSE	1	
⚠ R1526	K5H6312A0008	FUSE	1	
R1601	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R1602	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1603	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1605	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1607	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1608	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	1	
R1612	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1618	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1619	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1621	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
⚠ R1625	K5H1021A0004	IC	1	
R1627,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1630,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1634	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1635,36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1638	ERJ2RHD821	M.RESISTOR CH 1/16W 820	1	
R1639	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1640	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1641	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1681	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1682	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1901	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1912	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1925	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1926	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1928	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R1929	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1930	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
T1051	G5D1A0000033	TRANSFORMER	1	
		MISCELLANEOUS		
	VMP8005	POWER PCB HOLDER	1	
	VSC5590	POWER PCB SHIELD (L)	1	
	VSC5589	POWER PCB SHIELD (U)	1	
	XQN16+B3FN	SCREW	2	
	VMX3424	GYRO PCB SPACER	1	
■ E2	VEP03G60A	VTR C.B.A.	1	(RTL)
C600	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C605	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C606,07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C610	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C612	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	1	
C626	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C627	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C628	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C629	ECST0JY335Z	T.CAPACITOR CH6.3V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C633	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C666	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2002	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2003	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2004,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2007,08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2009,10	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2011	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2012	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2013-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2016	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2019	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2020,21	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2024	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2025	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C2028	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2041	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2047	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2053	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2054	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2055	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2063	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2072	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2201,02	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C2203	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2204	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C2205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2209	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C2212	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2213	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2216	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2217-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2221	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2222,23	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C2225	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2226	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2230	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2231	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C2232	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2243	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3004	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3005	F3G1A4760001	T.CAPACITOR CH 10V 47U	1	
C3006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3007	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3010-12	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3015	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3016	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3017	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3018	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3019	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3020,21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3024,25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3030	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3038	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3039	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3045	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3046,47	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3053	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3055	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3056	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3061	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102,03	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3104	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3112	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3114	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3116,17	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3118	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3123	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3124	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3125	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3127	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3130	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3131,32	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3134	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3135	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3136,37	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3201	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3202	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3203	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3204-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3210	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3212,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3221	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3229	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3252	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3253	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C3254	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3257	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3260	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3501-03	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3504,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3511	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3512,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C3516	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3520	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3521-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3556	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C3557	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C3563	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C3564	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3566	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3569	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3570	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4000,01	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4003,04	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C4005,06	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4007,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C4009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4010	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C4011,12	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C4013	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C4014	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C4015	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4017-20	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	4	
C4021,22	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4025,26	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4029,30	F3F1A226A008	T.CAPACITOR CH 10V 22U	2	
C5001	F3H1C4760008	T.CAPACITOR CH 16V 47U	1	
C5002,03	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	2	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C5021-24	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	4	
D1	B0JDAD000001	DIODE	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001	MA133	DIODE	1	
D2006	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA2S11100L	DIODE	1	
D2201	MA133	DIODE	1	
D3102,03	D4ED1220A006	VARISTOR	2	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLK000004	IC	1	
IC2005	C0ABAA000046	IC	1	
IC2007	C1ZBZ0002226	IC	1	
IC2008	C3EBGG000015	IC	1	
IC2011	C0CBAAA00016	IC	1	
IC2012	C0EBD0000171	IC	1	
IC2013	C0CBCAC00082	IC	1	
IC2014	C0CBABC00137	IC	1	
IC2201	C1AB00001752	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZJ000005	IC	1	
IC3005	C1BB00000820	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C0ZBZ0000830	IC	1	
IC3009	C0CBAAE00016	IC	1	
IC3201	C1AB00001695	IC	1	
IC3202	C1AB00001612	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	C0ABAA000046	IC	1	
IC3503	C1AB00000647	IC	1	
IC4000,01	TA75W01FU	IC	2	
IC4002	C0ZBZ0000043	IC	1	
IC4003,04	TA75S01F	IC	2	
IC4005	TC4W53FU	IC	1	
IC4008	TC4W53FU	IC	1	
IC5001	AN3732FJMEFV	IC	1	
L601	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2002	VLQ0807K220	COIL 22UH	1	G1C220K00016
L3006	G1C100MA0060	COIL 10UH	1	
L3009	G1C100KA0055	COIL 10UH	1	
L3011-14	G1C100KA0055	COIL 10UH	4	
L3015	G1C101KA0055	COIL 100UH	1	
L3017	G1C470MA0072	COIL 47UH	1	
L3018	G1C100K00019	COIL 10UH	1	
L3021-23	G1C100KA0055	COIL 10UH	3	
L3204	G1C101KA0055	COIL 100UH	1	
L3206	G1C100KA0055	COIL 10UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3501	G1C100KA0055	COIL 10UH	1	
L3505-09	G1C330K00017	COIL 33UH	5	
L4000	G1C100MA0060	COIL 10UH	1	
L5001	G1C101KA0055	COIL 100UH	1	
L5002,03	G1C100MA0060	COIL 10UH	2	
LB3001	J0JAC0000014	FILTER	1	
LB3003,04	J0JAC0000014	FILTER	2	
LB3006	J0JAC0000014	FILTER	1	
LB3201	J0JAC0000014	FILTER	1	
LB3203	J0JAC0000014	FILTER	1	
LB3205	J0JAC0000014	FILTER	1	
LB3502,03	J0JBC0000012	FILTER	2	
P2200	K1KBC0A00028	CONNECTOR (FEMALE)	1	
P2201	K1KB40A00131	CONNECTOR (FEMALE)	1	
P2210	K1MN08A00032	CONNECTOR	1	
P2211	K1MN08B00040	CONNECTOR	1	
P2212,13	K1MN18B00049	CONNECTOR	2	
P2214	K1MN10B00062	CONNECTOR	1	
P2215	VJS3826C030	CONNECTOR (FEMALE)	1	
P2216	VJS3791D024	CONNECTOR (FEMALE)	1	K1MN24B00012
P2217	K1MN33B00023	CONNECTOR	1	
P2219	K1KB60A00122	CONNECTOR (FEMALE)	1	
P2220	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2221	K1KA02B00053	CONNECTOR (MALE)	1	
P2222	K1KA08A00267	CONNECTOR (MALE)	1	
P2224	K1KB30B00014	CONNECTOR (FEMALE)	1	
Q601	B1ADGD000005	TRANSISTOR	1	
Q602	B1ADBE000001	TRANSISTOR	1	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2001	2SB0970X0L	TRANSISTOR	1	
Q2002	2SA202100L	TRANSISTOR	1	
Q2003	2SD182000L	TRANSISTOR	1	
Q2004	B1CHHD000003	TRANSISTOR	1	
Q2007	B1ACGD000006	TRANSISTOR	1	
Q3101-03	B1ABBE000002	TRANSISTOR	3	
Q3501	B1ACGD000006	TRANSISTOR	1	
Q3503	XP0460100L	TRANSISTOR	1	
Q3504	2SB1218AHL	TRANSISTOR	1	
Q3505	B1ABBE000002	TRANSISTOR	1	
Q3506	XP0460100L	TRANSISTOR	1	
Q4000,01	2SD1819A-R	TRANSISTOR	2	
Q4002	2SD1824	TRANSISTOR	1	
Q4003,04	XP0121300L	TRANSISTOR	2	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR321F00L	TRANSISTOR	1	
QR2003	UNR321F00L	TRANSISTOR	1	
QR2006,07	XP0411500L	TRANSISTOR	2	
QR2012	XP0431N00L	TRANSISTOR	1	
QR3104	UNR221300L	TRANSISTOR	1	
QR3502	B1GBBEKK0001	TRANSISTOR	1	
R601	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R602	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R604	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R632	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R636	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R648-50	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R651	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R657	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R658	ERJ2RMJ331	M.RESISTOR CH 1/16W 330	1	
R2001,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2006	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2008	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2009	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2011	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2012	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2013	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2014	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2016,17	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2019	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2022-24	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2026	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2027	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2029	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2030	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2031	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2032	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2037	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2039	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2040	ERJ8GEYG680	M.RESISTOR CH 1/8W 68	1	
R2041	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2045	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2047,48	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2054	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2055	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2057	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2060	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2061	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2065	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R2066	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2067	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2068	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R2069	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2074	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2078	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2080	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R2083	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2089	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2095	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2096	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2099,00	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2101	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2104	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2114,15	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2128	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2129	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2130	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2131	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136,37	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2140	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2141	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2143	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2144	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R2146	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2151	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2153	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2155	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2161	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2163	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2199	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2201	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2202	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R2204	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2205,06	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2207	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2210	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2211	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2212	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2213	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2214	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2218	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2219	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2220	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2222	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2226	ERJ8GEYJR68	M.RESISTOR CH 1/8W 0.68	1	
R2227	EXB24V102J	COMBI.R-R 1K	1	
R2647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2649-51	EXB24V473J	COMBI.R-R 47K	3	
R2653,54	EXB24V473J	COMBI.R-R 47K	2	
R2655-61	EXB24V102J	COMBI.R-R 1K	7	
R2662	EXB24V473J	COMBI.R-R 47K	1	
R2663-66	EXB24V102J	COMBI.R-R 1K	4	
R2667	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2669	EXB24V473J	COMBI.R-R 47K	1	
R2671,72	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3003,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3010,11	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-25	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R3026	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3101	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2RMJ473	M.RESISTOR CH 1/16W 47K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3135	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3139	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3140,41	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3156,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3158,59	EXB24V473J	COMBI.R-R 47K	2	
R3170	EXB24V102J	COMBI.R-R 1K	1	
R3171	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3176	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3179,80	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3181,82	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3201	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R3202	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3203	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3204	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3205	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3206	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3207	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3208,09	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3210	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
R3211,12	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3234	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3260	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3514	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3516	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3549	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3550	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3553	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3554	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3570	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4000-03	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	4	
R4004,05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4006-09	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R4010,11	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4012,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4014,15	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	2	
R4016,17	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	2	
R4018-21	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4022,23	ERJ3RBD623	M.RESISTOR CH 1/16W 62K	2	
R4024,25	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4032	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4033	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4034,35	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4036	EXB24V473J	COMBI.R-R 47K	1	
R4037	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4038,39	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4042,43	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	2	
R4044,45	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R4046-49	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4050,51	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4052	EXB24V473J	COMBI.R-R 47K	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5013,14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6901,02	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R9007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9010,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R9014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9023	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9029	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R9031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TP9001	EYF6CU	TEST POINT	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
X2003	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	EYF6CU	TEST POINT	2	
■ E3	VEP23598A	CAMERA C.B.A.	1	(RTL)
C100	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102-07	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C112-14	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	3	
C115-17	ECST1EY155	T.CAPACITOR CH 25V 1.5U	3	
C121-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C127	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C128	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C129,30	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132,33	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C134	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C135	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C136-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C139-44	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C145-50	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C152-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C155-57	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C727,28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C737	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C738	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C747	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C750	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757-59	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C763	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C785	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C786-88	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C789	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C798	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C807	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C900	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C901	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C902	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C903	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C927	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C928	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C929	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C930	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C932	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C933	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C934	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C935	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C936	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C937	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C938	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C940	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C941	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1002,03	F3F1A226A001	T.CAPACITOR CH 10V 22U	2	
C1004	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1010-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1017	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1018-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1027,28	ECST1EX475	T.CAPACITOR CH 25V 4.7U	2	
C1029	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1030-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C1035	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1036-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1039	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1043	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1045	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1046	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1048	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1049	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1051,52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1053	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1054	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1055	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C1056-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1062,63	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C1064,65	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	2	
C1067	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1069,70	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1079	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1084	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1085	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1086-88	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1089	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1090-92	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1093	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1094	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1601	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1602	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1603	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1604	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1605	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1606	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1651	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1652	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1653	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1655	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1656	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1657	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1660,61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C2001	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2003,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2007	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2008-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2011,12	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	2	
C2013	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3000	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3001	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3004-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3007	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C3008	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3020	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3021	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C3022	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3023	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C3024	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3025	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3026	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C3030	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3031	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3032	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3034	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4112	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4124	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1001	MA3S132A0L	DIODE	1	
D1601	MA3S132E0L	DIODE	1	
D3000	B0JCDD000002	DIODE	1	
IC1	C0CBABC00094	IC	1	
IC2	NJM431U	IC	1	C0DBEZC00003
IC104-06	C1AB00001677	IC	3	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC710	C0GBG0000028	IC	1	
IC711	C0CBADC00034	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	
IC719	C0CBADC00034	IC	1	
IC927	C0ABCA000053	IC	1	
IC928	C0ABAA000043	IC	1	
IC929	C0CBADC00034	IC	1	
IC1000	C1ZBZ0002385	PLD	1	
IC1001	C0JBAB000004	IC	1	
IC1002	C0JBAF000162	IC	1	
IC1003	C0JBAB000003	IC	1	
IC1004-06	TC7SH32FU	IC	3	
IC1007	C0JBAE000140	IC	1	
IC1008	C0JBAA000102	IC	1	
IC1010	TC7SH04FU	IC	1	
IC1011	C0JBAA000102	IC	1	
IC1013	C0JBAD000071	IC	1	
IC1014	TC7SH32FU	IC	1	
IC1015,16	C0JBAB000543	IC	2	
IC1022,23	UPD16510GR	IC	2	
IC1024	C0JBAA000182	IC	1	
IC1025	C0JBAE000140	IC	1	
IC2000	MN7GD02B5DB	IC	1	
IC2002	TC7W74FU	IC	1	
IC2003	C0JBAF000162	IC	1	
IC3000	TC7SH04FU	IC	1	
IC3001	C0FBAF000029	IC	1	
IC3002,03	TC7SH14FU	IC	2	
IC3005	C0JBAA000102	IC	1	
IC3006	C3EBHC000015	IC	1	
IC3500	MN103S33NSA	IC	1	
IC4105	C0ABAA000046	IC	1	
L100-02	VLQ0807K100	COIL 10UH	3	G1C100K00024
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703	VLQ0807K100	COIL 10UH	1	G1C100K00024
L708,09	VLQ0807K100	COIL 10UH	2	G1C100K00024
L900	VLQ0807K100	COIL 10UH	1	G1C100K00024
L927	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1000,01	G1C100K00025	COIL 10UH	2	
L1002	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1003	G1C100KA0004	COIL 10UH	1	
L1006	VLQ0807K100	COIL 10UH	1	G1C100K00024
L2000	VLQ0807K100	COIL 10UH	1	G1C100K00024

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L2001	G1C4R7MA0031	COIL 4.7UH	1	
L2003	G1C100K00019	COIL 10UH	1	
L3001	VLQ0807K100	COIL 10UH	1	G1C100K00024
L4104	G1C100K00019	COIL 10UH	1	
P1	K1KA40A00217	CONNECTOR (MALE)	1	
P2	K1KAC0A00023	CONNECTOR (MALE)	1	
P3	K1MN20B00028	CONNECTOR	1	
P4	K1MN10A00045	CONNECTOR	1	
P5	VJP3949A080H	CONNECTOR (MALE)	1	
P6	K1KA40A00216	CONNECTOR (MALE)	1	
P7	VJS3791D016	CONNECTOR (FEMALE)	1	
P8	VJS3826C050	CONNECTOR (FEMALE)	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q702	B1ADGD000005	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q927	2SD2216J0L	TRANSISTOR	1	
Q928	2SD0601A0L	TRANSISTOR	1	
Q1601	2SB1462J0L	TRANSISTOR	1	
Q1602	XP1501	TRANSISTOR-RESISTOR	1	
Q1603	2SD1819A-R	TRANSISTOR	1	
Q1604	2SB1462J0L	TRANSISTOR	1	
Q1605	2SD2216J0L	TRANSISTOR	1	
Q1606	2SB1462J0L	TRANSISTOR	1	
Q1651	2SD2216J0L	TRANSISTOR	1	
Q1652	XP1401	TRANSISTOR-RESISTOR	1	
Q1653	2SB1218A-R	TRANSISTOR	1	
Q1654	2SD2216J0L	TRANSISTOR	1	
Q3000	XN0460100L	TRANSISTOR-RESISTOR	1	
Q3001	2SD1979	TRANSISTOR	1	
QR701	UN9211	TRANSISTOR-RESISTOR	1	
QR705	UN9211	TRANSISTOR-RESISTOR	1	
QR708,09	UN9213	TRANSISTOR-RESISTOR	2	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602	UNR9111J0L	TRANSISTOR	1	
QR1651	UN9213	TRANSISTOR-RESISTOR	1	
QR3000,01	UNR9215J0L	TRANSISTOR	2	
QR3002	B1GDBEJG0002	TRANSISTOR	1	
R1,R2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R100-02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R110-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R709	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R719	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R728	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R737	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R738	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R746	ERJ2GEJ155	M.RESISTOR CH 1/16W 1.5M	1	
R747	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R748	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R749	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R754	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R755	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R760	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R765	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R779	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R780	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R781	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R793	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R794	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R798	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R803,04	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R805	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R807	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R809	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R810	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R823	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R825	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R901	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R903	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R904-06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R909	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R911	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R927	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R928	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R929	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R930	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R931,32	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R933	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R934	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R935	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R936	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R937	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R938	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R939,40	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R941	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R942	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R943	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R944	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R945	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R946	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R947	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R948	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R949	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R954	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R979	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R980	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R990	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R992	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1020	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1056	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1167	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1175	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1178,79	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R1182	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1183	ERJ2RMJ391	M.RESISTOR CH 1/16W 390	1	
R1185	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1191	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1194	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1195,96	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1198,99	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1200	ERJ2GEJ270	M.RESISTOR CH 1/16W 27	1	
R1201-07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R1601	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1602	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1603	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1604	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1607	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1608	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1609	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1610	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1612	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
R1613	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1614	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R1615	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1616	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1617	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1618	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1620	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1651	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1652	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1653	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1654	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1655	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1657	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1658	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1659	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1660	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1662	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1663	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
R1664	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R1666	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1667	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1669,70	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1673	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R2006,07	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2009	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2010,11	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2014	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2022	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2029,30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2096	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3012,13	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3014-16	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3017	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3019	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3020-22	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R3023	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3024	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3026	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3031	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3032	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R3033	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3034,35	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3036,37	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	2	
R3038	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3039	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3040	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3041-44	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R3046	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3049	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3051	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3055	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3057	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3059	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3060	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3061	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3062	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3063,64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3078	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3083,84	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3089	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3091	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3095	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3109,10	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3116	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3118	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3154	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3156	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3157	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3158	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3163	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3164	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3165	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3166,67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3168,69	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3170-73	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R3175	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3178	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3179	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3181	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3183	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3184	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R3185	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R3186	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3187	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3188	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3190	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3191,92	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3195	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3198,99	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3207	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3210	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3211	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4115-18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4119,20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4156	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4157	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4166-71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R4173	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X1000	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X3000	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5623	CAMERA PCB HEAT SINK (L)	1	
	VSC5624	CAMERA PCB HEAT SINK (U)	1	
	VGQ8094	COOLING SHEET CR	1	
	VGQ8096	COOLING SHEET_C2	1	
	VGQ8097	COOLING SHEET_C3	5	
	XQN16+B3FN	SCREW	2	
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
C6301	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6302	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C6303	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C6304	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C6306,07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	
C6308	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6310	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6312	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6313	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6314	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D6301,02	B3EA00000029	LED	2	
IC6301	B3MAZ0000028	PHOTO DETECTOR	1	
IC6302	L2ES00000011	SENSOR UNIT	1	
IC6303	C0ABBA000077	IC	1	
IC6304	C0JBAS000063	IC	1	
L6301-03	G1C100K00019	COIL 10UH	3	
P6301	VJS3791D016	CONNECTOR (FEMALE)	1	
P6302	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R6301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6306,07	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R6308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6310	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8013	FRONT PCB BASE	1	
	VJF1495	LED HOLDER	1	
	XQN16+B3FN	SCREW	3	
	XQN16+B4FN	SCREW	1	
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
C4101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4102,03	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C4104	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4105-08	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	4	
C4109,10	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C4111,12	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4113	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4115	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
D4101	MA132WA	DIODE	1	
D4102	MA2SD2400L	DIODE	1	
D4103	B3GA00000041	DIODE	1	
J4101	K2HZ104A0002	S TERMINAL JACK	1	
J4102	K2HC106B0010	AC POWER PLUG	1	
J4103	K2HC107B0003	AC POWER PLUG	1	
L4101	J0JBC0000054	FILTER	1	
L4102-04	J0JAC0000014	FILTER	3	
L4105,06	J0JBC0000054	FILTER	2	
L4107	J0JAC0000014	FILTER	1	
L4108-12	J0JAC0000015	FILTER	5	
L4113	J0JCC0000119	FILTER	1	
L4114	J0JAC0000015	FILTER	1	
P4101	K1MN33B00023	CONNECTOR	1	
Q4101	2SD103000L	TRANSISTOR	1	
Q4102	B1ABBE000002	TRANSISTOR	1	
Q4103	2SD2216J0L	TRANSISTOR	1	
Q4104	2SB1462J0L	TRANSISTOR	1	
Q4105	2SD2216J0L	TRANSISTOR	1	
Q4106	2SB1462J0L	TRANSISTOR	1	
Q4107	2SD1819A-R	TRANSISTOR	1	
QR4101	B1GDBEHH0001	TRANSISTOR	1	
R4101	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4102	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4104	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4105	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R4106	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4109	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4111	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4113	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4114	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4116	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4117	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4118	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4119	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4120	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4121	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4123	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4124	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4131-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
TH4101	D4CC11030012	THERMISTOR	1	
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
		MISCELLANEOUS		
	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA03B00102	CONNECTOR (MALE)	1	
R1	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
SW201	EVQQW101M	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
D1	MA142K	DIODE	1	
P1	K1MN06B00077	CONNECTOR	1	
P2	K1MN10B00052	CONNECTOR	1	
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
SW501	K0L1BB000022	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z34	CAS OPEN HARNESS	1	
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
J4301	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
J4302	K2YZ04000016	PLUG AND JACK	1	
J4303	K2HC106B0010	AC POWER PLUG	1	
L4301,02	VLF1315A102	FILTER	2	J0JHC0000015
L4304,05	J0MAB0000110	FILTER	2	
L4306	VLF1394	FILTER	1	J0MAB0000077
P4301	K1MN10B00052	CONNECTOR	1	
P4302	VJS3801D024	CONNECTOR (FEMALE)	1	
R4301,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4304,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8003	REAR P.C.B.FIX ANGLE	1	
	XQN16+B4FN	SCREW	2	
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA60A00148	CONNECTOR (MALE)	1	
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
B6401	VSB0407	BATTERY	1	
C6402-06	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
D6401	B0JDAD000001	DIODE	1	
D6402	MA3S781D0L	DIODE	1	
D6403,04	B0JDAD000001	DIODE	2	
D6405,06	MA3S781D0L	DIODE	2	
D6407	B0JDAD000001	DIODE	1	
P6401	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P6402	VJS3791D016	CONNECTOR (FEMALE)	1	
P6403	K1MN61B00001	CONNECTOR	1	
P6404	K1MN27B00053	CONNECTOR	1	
P6405	K1KA02B00053	CONNECTOR (MALE)	1	
R6401	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
SW6401-05	EVQPLPA08	SWITCH	5	
SW6406-13	K0H1BA000442	SWITCH	8	
SW6414	K0D112B00055	SWITCH	1	
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
P6001	VJS3791D016	CONNECTOR (FEMALE)	1	
P6002	K1MN06B00013	CONNECTOR	1	
SW6001-05	EVQPLPA08	SWITCH	5	
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
SW101	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z35	LCD OPEN HARNESS	1	
	VMP8017	LCD SW ANGLE	1	
	XQN16+B3FN	SCREW	1	
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
D401	B3AAB0000129	LED	1	
R401	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1MN18B00048	CONNECTOR	1	
P2	K1MN07B00070	CONNECTOR	1	
P3	K1MN31B00015	CONNECTOR	1	
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
SW1	EVQPLPA08	SWITCH	1	
VR1	K9AA01500005	SWITCH	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP8020	CAM OP ANGLE	1	
	XQN16+B3FN	SCREW	2	
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	FOR VEP26257B
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 10UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

AG-DVC30E, AG-DVC32EN, AG-DVC33MC

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
■ E2	VEP03G60B	VTR C.B.A.	1	(RTL)
■ E3	VEP23598B	CAMERA C.B.A.	1	(RTL)
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
■ E6	VEP001G1A	SUB REC C.B.A.	1	(RTL)
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01952A	POWER C.B.A.	1	(RTL)
■	VEP001G8A	GYRO SUB C.B.A.	1	(RTL)FOR VEP01952A
C1001,02	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1004	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1005,06	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	2	
C1007-09	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1011	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1012	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1021	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1022	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1041	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1042	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1051	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1052	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1053-55	F1G1H2210001	C.CAPACITOR CH 50V 220P	3	
C1057	F1G1H2210001	C.CAPACITOR CH 50V 220P	1	
C1058	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	1	
C1061,62	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C1063,64	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071,72	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	2	
C1101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1102	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C1103	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1106	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C1112	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1113	F1G1C333A004	C.CAPACITOR CH 16V 0.033U	1	
C1115	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1123	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C1126	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1142	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1145	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1146	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1151	ECJ1ZB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1152	ECUX1E473KBV	C.CAPACITOR CH 25V 0.047U	1	
C1154	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1157	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1211,12	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1221-24	F1H1A105A028	C.CAPACITOR CH 10V 1U	4	
C1226,27	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1228	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C1241	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1249	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1251,52	ECJ2FB1E105K	C.CAPACITOR CH 25V 1U	2	
C1253	F1H1E154A050	C.CAPACITOR CH 25V 0.15U	1	
C1271	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1273	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
C1322,23	F1H1A105A028	C.CAPACITOR CH 10V 1U	2	
C1328	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1341	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1342	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1343	F1H1A105A028	C.CAPACITOR CH 10V 1U	1	
C1344	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C1503	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1603	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1604	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1605	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C1606	ECJ0EB1A683K	C.CAPACITOR CH 10V 0.068U	1	
C1608	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1610	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C1615	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1616	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C1619	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C1620	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
C1621	ECJ2FB1A475K	C.CAPACITOR CH 10V 4.7U	1	
C1622	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1623	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1627,28	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C1635	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C1636	F1J0J106A014	T.CAPACITOR CH6.3V 10U	1	
C1901	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C1902	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C1911,12	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1925	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1927	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1929	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
C1930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1931	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1003	NSD03A20	DIODE	1	
D1005	MA8130-M	DIODE	1	
D1011	B0JCMC000004	DIODE	1	
D1021	B0JCMC000004	DIODE	1	
D1041	B0JCMC000004	DIODE	1	
D1051	MA2YD1700L	DIODE	1	
D1052	MA2Z00100L	DIODE	1	
D1071	MA111	DIODE	1	
D1072	MA2Z00100L	DIODE	1	
D1101	MA8100-M	DIODE	1	
D1102	MA2S11100L	DIODE	1	
D1131	MA2S11100L	DIODE	1	
D1251	MAZ81800HL	DIODE	1	
D1252	MA2S11100L	DIODE	1	
D1528	MA2S11100L	DIODE	1	
D1602	B0JCMC000004	DIODE	1	
D1608	B0JCMC000004	DIODE	1	
D1610	MA2S11100L	DIODE	1	
D1681	B0ADDJ000011	DIODE	1	
D1682	MA2S11100L	DIODE	1	
D1683	MAZ80620HL	DIODE	1	
D1684	MA3S132E0L	DIODE	1	
D1685	B0BC4R200013	DIODE	1	
IC1001	C0DBAZZ00064	IC	1	
IC1321	C0CBCAC00061	IC	1	
IC1601	C0DBAZZ00064	IC	1	
IC1901	L2ES00000010	SENSOR UNIT	1	FOR VEP001G8A
IC1922	C0ABBA000077	IC	1	
IC1923	C0JBAS000063	IC	1	
⚠ IP1001	K5H3122A0022	FUSE	1	
⚠ IP1003	K5H8011A0004	FUSE	1	
L1001	G1C3R9MA0024	COIL 3.9UH	1	
L1005	J0JHC0000018	FILTER	1	
L1006	J0MAB0000060	FILTER	1	
L1011	G1C330MA0011	COIL 33UH	1	
L1021	G1C220MA0011	COIL 22UH	1	
L1041	G1C330MA0011	COIL 33UH	1	
L1061	G1C330MA0085	COIL 33UH	1	
L1062	G1C181MA0024	COIL 180UH	1	
L1111	J0JAC0000011	FILTER	1	
L1121	J0JAC0000011	FILTER	1	
L1141	J0JAC0000011	FILTER	1	
L1151	J0JAC0000011	FILTER	1	
L1211,12	G1C4R7MA0072	COIL 4.7UH	2	
L1221	G1C4R7MA0072	COIL 4.7UH	1	
L1222	G1C4R7MA0073	COIL 4.7UH	1	
L1223,24	G1C4R7MA0076	COIL 4.7UH	2	
L1226,27	G1C4R7MA0073	COIL 4.7UH	2	
L1241	G1C4R7MA0072	COIL 4.7UH	1	
L1251-53	G1C100KA0055	COIL 10UH	3	
L1271,72	G1C100KA0055	COIL 10UH	2	
L1321,22	G1C4R7MA0076	COIL 4.7UH	2	
L1341,42	G1C4R7MA0073	COIL 4.7UH	2	
L1602	G1C331M00006	COIL 330UH	1	
L1604,05	G1C4R7MA0076	COIL 4.7UH	2	
L1609	A921CY-470M	FILTER	1	
L1610	J0JAC0000011	FILTER	1	
L1612	J0JAC0000011	FILTER	1	
L1901	G1C100K00019	COIL 10UH	1	
L1922,23	G1C100K00019	COIL 10UH	2	
P1001	K1KA03A00462	CONNECTOR (MALE)	1	
P1011	K1KA80A00037	CONNECTOR	1	
Q1003	B2ABGP000001	THYRISTOR	1	
Q1011	B1DHCC000035	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1021	B1DHCC000035	TRANSISTOR	1	
Q1022	B1DFCD000012	TRANSISTOR	1	
Q1041	B1DHCC000035	TRANSISTOR	1	
Q1042	B1DFCD000012	TRANSISTOR	1	
Q1051	B1DFCG000011	TRANSISTOR	1	
Q1061,62	FP102	TRANSISTOR	2	
Q1601,02	B1DHCC000035	TRANSISTOR	2	
Q1611	B1DHCC000035	TRANSISTOR	1	
Q1612	B1DFCD000012	TRANSISTOR	1	
QR1001	UNR9113J0L	TRANSISTOR	1	
QR1101	UNR9214J0L	TRANSISTOR	1	
QR1102	UNR911DJ0L	TRANSISTOR	1	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602,03	UN9213	TRANSISTOR-RESISTOR	2	
QR1681	UN9115	TRANSISTOR-RESISTOR	1	
R1002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1005	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1017	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1047	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1052,53	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R1056,57	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	2	D0GD220JA003
R1058	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R1105	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1106	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1107	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1108,09	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	2	
R1111	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1115	ERJ2RHD822	M.RESISTOR CH 1/16W 8.2K	1	
R1116	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1117	ERJ2RKD680	M.RESISTOR CH 1/16W 68	1	
R1119	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1121	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1125	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R1126	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1127	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1128,29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1141	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1145	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R1146	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1147	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1148,49	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1151	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R1152	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R1153	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1154	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1157	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R1158	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1159	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
R1241	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1251	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1402	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1501	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
R1503	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
⚠ R1524	K5H6312A0008	FUSE	1	
⚠ R1525	K5H1222A0008	FUSE	1	
⚠ R1526	K5H6312A0008	FUSE	1	
R1601	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
R1602	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
R1603	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1605	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1607	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1608	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	1	
R1612	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1618	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1619	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1621	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
⚠ R1625	K5H1021A0004	IC	1	
R1627,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1630,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1634	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1635,36	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1638	ERJ2RHD821	M.RESISTOR CH 1/16W 820	1	
R1639	ERJ2RHD271	M.RESISTOR CH 1/16W 270	1	
R1640	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1641	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1643	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1681	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1682	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1901	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1912	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1925	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R1926	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1928	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R1929	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1930	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
T1051	G5D1A0000033	TRANSFORMER	1	
		MISCELLANEOUS		
	VMP8005	POWER PCB HOLDER	1	
	VSC5590	POWER PCB SHIELD (L)	1	
	VSC5589	POWER PCB SHIELD (U)	1	
	XQN16+B3FN	SCREW	2	
	VMX3424	GYRO PCB SPACER	1	
■ E2	VEP03G60B	VTR C.B.A.	1	(RTL)
C600	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C602	ECJ0EC1H680J	C.CAPACITOR CH 50V 68P	1	
C604	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C605	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C606,07	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C610	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C611	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C612	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C614	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C616	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C617	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C618-20	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	3	
C625	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	1	
C626	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C627	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C628	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C629	ECST0JY335Z	T.CAPACITOR CH6.3V 3.3U	1	
C630	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C631	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C633	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C666	F1K1E225A047	C.CAPACITOR CH 25V 2.2U	1	
C672	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2002	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2003	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2004,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2007,08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2009,10	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2011	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2012	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2013-15	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2016	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2019	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2020,21	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2024	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2025	ECJ0EC1H050C	C.CAPACITOR CH 50V 5P	1	
C2028	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2030	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2031	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2033	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2037	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C2041	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2043	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C2047	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2048	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2053	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2054	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2055	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2063	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2072	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2201,02	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C2203	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2204	ECJ0EC1H470J	C.CAPACITOR CH 50V 47P	1	
C2205-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2209	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C2212	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2213	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2216	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2217-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C2221	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2222,23	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	2	
C2225	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C2226	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C2230	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2231	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C2232	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2243	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3004	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3005	F3G1A4760001	T.CAPACITOR CH 10V 47U	1	
C3006	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3007	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3008	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3010-12	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3015	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3016	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3017	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3018	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3019	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3020,21	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3024,25	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3030	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3031	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3034	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3035,36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3038	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3039	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3041	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3043	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3045	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3046,47	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3053	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3055	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3056	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3061	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3062	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3063	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3064-67	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C3101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3102,03	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3104	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3105,06	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3107	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3108	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C3109	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3110	F3H1A1070006	T.CAPACITOR CH 10V 100U	1	
C3111	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3112	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3113	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C3114	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3115	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3116,17	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3118	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3119	F3H0J1070005	T.CAPACITOR CH6.3V 100U	1	
C3120	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3121	F3E0G1060002	T.CAPACITOR CH 4V 10U	1	
C3122	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C3123	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3124	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3125	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3126	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C3127	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3128	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	1	
C3129	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3130	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3131,32	ECJ1VB0J225K	C.CAPACITOR CH6.3V 2.2U	2	
C3133	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3134	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3135	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3136,37	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C3138	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3139	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3140,41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3142	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3201	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3202	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3203	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3204-08	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C3210	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3212,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3215	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3218-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3221	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C3229	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3252	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3253	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C3254	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C3255	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3257	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C3259	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3260	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3501-03	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	3	
C3504,05	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3506	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3507,08	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3509,10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3511	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
C3512,13	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C3514,15	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	2	
C3516	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3517,18	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C3519	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3520	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3521-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3551	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3552,53	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	2	
C3554	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3555	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3556	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C3557	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3558-60	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	3	
C3561	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C3562	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C3563	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C3564	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C3566	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C3569	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3570	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4000,01	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C4002	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4003,04	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	2	
C4005,06	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4007,08	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C4009	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4010	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C4011,12	F1J1A335A003	C.CAPACITOR CH 10V 3.3U	2	
C4013	F3F1A226A008	T.CAPACITOR CH 10V 22U	1	
C4014	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
C4015	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C4017-20	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	4	
C4021,22	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4025,26	ECJ1VB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C4029,30	F3F1A226A008	T.CAPACITOR CH 10V 22U	2	
C5001	F3H1C4760008	T.CAPACITOR CH 16V 47U	1	
C5002,03	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	2	
C5005	ECJ0EB1E681K	C.CAPACITOR CH 25V 680P	1	
C5008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5012	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C5013	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C5014	ECJ1VC1H470J	C.CAPACITOR CH 50V 47P	1	
C5021-24	ECJ0EC1H080C	C.CAPACITOR CH 50V 8P	4	
D1	B0JDAD000001	DIODE	1	
D601	MA338	DIODE	1	MA2X338
D602	MA111	DIODE	1	
D2001	MA133	DIODE	1	
D2006	MA2SD2400L	DIODE	1	
D2009	MA2SD2400L	DIODE	1	
D2012	MA111	DIODE	1	
D2013	MA2SD2400L	DIODE	1	
D2014	MA2S11100L	DIODE	1	
D2201	MA133	DIODE	1	
D3102,03	D4ED1220A006	VARISTOR	2	
IC601	C0HBA0000094	IC	1	
IC602	C0JBAA000115	IC	1	
IC2001	C2DBLK000004	IC	1	
IC2005	C0ABAA000046	IC	1	
IC2007	C1ZBZ0002226	IC	1	
IC2008	C3EBGG000015	IC	1	
IC2011	C0CBAAA00016	IC	1	
IC2012	C0EBD0000171	IC	1	
IC2013	C0CBCAC00082	IC	1	
IC2014	C0CBABC00137	IC	1	
IC2201	C1AB00001752	IC	1	
IC3001	C1AB00001797	IC	1	
IC3002	AN2903FJQ-V	IC	1	
IC3004	C0FBZJ000005	IC	1	
IC3005	C1BB00000820	IC	1	
IC3006	C0JBAA000246	IC	1	
IC3007	C0JBAC000265	IC	1	
IC3008	C0ZBZ0000830	IC	1	
IC3009	C0CBAAE00016	IC	1	
IC3201	C1AB00001695	IC	1	
IC3202	C1AB00001612	IC	1	
IC3501	C1AB00001280	IC	1	
IC3502	C0ABAA000046	IC	1	
IC3503	C1AB00000647	IC	1	
IC4000,01	TA75W01FU	IC	2	
IC4002	C0ZBZ0000043	IC	1	
IC4003,04	TA75S01F	IC	2	
IC4005	TC4W53FU	IC	1	
IC4008	TC4W53FU	IC	1	
IC5001	AN3732FJMEFV	IC	1	
L601	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
L605,06	VLQ0807K220	COIL 22UH	2	G1C220K00016
L2002	VLQ0807K220	COIL 22UH	1	G1C220K00016
L3006	G1C100MA0060	COIL 10UH	1	
L3009	G1C100KA0055	COIL 10UH	1	
L3011-14	G1C100KA0055	COIL 10UH	4	
L3015	G1C101KA0055	COIL 100UH	1	
L3017	G1C470MA0072	COIL 47UH	1	
L3018	G1C100K00019	COIL 10UH	1	
L3021-23	G1C100KA0055	COIL 10UH	3	
L3204	G1C101KA0055	COIL 100UH	1	
L3206	G1C100KA0055	COIL 10UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3501	G1C100KA0055	COIL 10UH	1	
L3505-09	G1C330K00017	COIL 33UH	5	
L4000	G1C100MA0060	COIL 10UH	1	
L5001	G1C101KA0055	COIL 100UH	1	
L5002,03	G1C100MA0060	COIL 10UH	2	
LB3001	J0JAC0000014	FILTER	1	
LB3003,04	J0JAC0000014	FILTER	2	
LB3006	J0JAC0000014	FILTER	1	
LB3201	J0JAC0000014	FILTER	1	
LB3203	J0JAC0000014	FILTER	1	
LB3205	J0JAC0000014	FILTER	1	
LB3502,03	J0JBC0000012	FILTER	2	
P2200	K1KBC0A00028	CONNECTOR (FEMALE)	1	
P2201	K1KB40A00131	CONNECTOR (FEMALE)	1	
P2210	K1MN08A00032	CONNECTOR	1	
P2211	K1MN08B00040	CONNECTOR	1	
P2212,13	K1MN18B00049	CONNECTOR	2	
P2214	K1MN10B00062	CONNECTOR	1	
P2215	VJS3826C030	CONNECTOR (FEMALE)	1	
P2216	VJS3791D024	CONNECTOR (FEMALE)	1	K1MN24B00012
P2217	K1MN33B00023	CONNECTOR	1	
P2219	K1KB60A00122	CONNECTOR (FEMALE)	1	
P2220	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P2221	K1KA02B00053	CONNECTOR (MALE)	1	
P2222	K1KA08A00267	CONNECTOR (MALE)	1	
P2224	K1KB30B00014	CONNECTOR (FEMALE)	1	
Q601	B1ADGD000005	TRANSISTOR	1	
Q602	B1ADBE000001	TRANSISTOR	1	
Q603	XP1501	TRANSISTOR-RESISTOR	1	
Q605	B1ADGD000005	TRANSISTOR	1	
Q608	B1ADGD000005	TRANSISTOR	1	
Q611	2SD2216J0L	TRANSISTOR	1	
Q2001	2SB0970X0L	TRANSISTOR	1	
Q2002	2SA202100L	TRANSISTOR	1	
Q2003	2SD182000L	TRANSISTOR	1	
Q2004	B1CHHD000003	TRANSISTOR	1	
Q2007	B1ACGD000006	TRANSISTOR	1	
Q3101-03	B1ABBE000002	TRANSISTOR	3	
Q3501	B1ACGD000006	TRANSISTOR	1	
Q3503	XP0460100L	TRANSISTOR	1	
Q3504	2SB1218AHL	TRANSISTOR	1	
Q3505	B1ABBE000002	TRANSISTOR	1	
Q3506	XP0460100L	TRANSISTOR	1	
Q4000,01	2SD1819A-R	TRANSISTOR	2	
Q4002	2SD1824	TRANSISTOR	1	
Q4003,04	XP0121300L	TRANSISTOR	2	
QR604	B1GBCFLL0022	TRANSISTOR	1	
QR2001	UNR321F00L	TRANSISTOR	1	
QR2003	UNR321F00L	TRANSISTOR	1	
QR2006,07	XP0411500L	TRANSISTOR	2	
QR2012	XP0431N00L	TRANSISTOR	1	
QR3104	UNR221300L	TRANSISTOR	1	
QR3502	B1GBBEKK0001	TRANSISTOR	1	
R601	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R602	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R604	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R606	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R609	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R610,11	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R614	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R616	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R617	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R618,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R622	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R623	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R624,25	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R626	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R627	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R628	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R629	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R630	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R631	ERJ2RHD113	M.RESISTOR CH 1/16W 11K	1	
R632	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R633	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R636	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R638-40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R642	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R644	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R648-50	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R651	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R657	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R658	ERJ2RMJ331	M.RESISTOR CH 1/16W 330	1	
R2001,02	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2006	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2008	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2009	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2010	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2011	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2012	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2013	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2014	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2016,17	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2019	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2021	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2022-24	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R2025	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2026	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2027	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2029	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2030	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2031	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2032	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R2033	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2034	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2036	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2037	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2039	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2040	ERJ8GEYG680	M.RESISTOR CH 1/8W 68	1	
R2041	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2042	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R2045	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2047,48	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2050	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2051	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2054	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2055	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2057	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2060	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2061	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2065	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1	
R2066	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2067	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2068	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R2069	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2074	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2075	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2078	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2080	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2082	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R2083	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R2089	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2091	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2092	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2093	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2094	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2095	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2096	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R2097	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R2099,00	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2101	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2104	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2105	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2111	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2114,15	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2116	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2117	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2118,19	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2120	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2126,27	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	2	
R2128	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2129	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2130	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2131	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2132	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2133	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2136,37	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R2138	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
R2139	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2140	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2141	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2142	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2143	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2144	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R2146	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2151	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2153	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R2155	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2161	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2163	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2170	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R2177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2195	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R2199	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2201	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R2202	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2203	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
R2204	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2205,06	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R2207	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2210	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2211	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2212	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
R2213	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	1	
R2214	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2217	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R2218	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2219	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R2220	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2222	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2226	ERJ8GEYJR68	M.RESISTOR CH 1/8W 0.68	1	
R2227	EXB24V102J	COMBI.R-R 1K	1	
R2647	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2649-51	EXB24V473J	COMBI.R-R 47K	3	
R2653,54	EXB24V473J	COMBI.R-R 47K	2	
R2655-61	EXB24V102J	COMBI.R-R 1K	7	
R2662	EXB24V473J	COMBI.R-R 47K	1	
R2663-66	EXB24V102J	COMBI.R-R 1K	4	
R2667	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R2668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2669	EXB24V473J	COMBI.R-R 47K	1	
R2671,72	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3001	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3002	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3003,04	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3005	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3006	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R3007	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3008	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3010,11	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3015	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3021	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3022-25	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R3026	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3030,31	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3035	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3037	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R3041	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3101	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3103	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3108	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3109	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3110	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3111	ERJ2GEJ391	M.RESISTOR CH 1/16W 390	1	
R3112	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3113	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R3115	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3116	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3118,19	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2	
R3120	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3125	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3126,27	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3128	ERJ2RMJ473	M.RESISTOR CH 1/16W 47K	1	
R3129	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3131	ERJ2GEJ750	M.RESISTOR CH 1/16W 75	1	
R3132	ERJ2GEJ680	M.RESISTOR CH 1/16W 68	1	
R3135	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3138	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3139	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3140,41	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	2	
R3156,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R3158,59	EXB24V473J	COMBI.R-R 47K	2	
R3170	EXB24V102J	COMBI.R-R 1K	1	
R3171	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3176	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3177	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3178	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3179,80	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3181,82	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3201	ERJ2RHD182	M.RESISTOR CH 1/16W 1.8K	1	
R3202	ERJ2GEJ271	M.RESISTOR CH 1/16W 270	1	
R3203	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3204	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3205	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R3206	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3207	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3208,09	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3210	ERJ2GEJ1R0	M.RESISTOR CH 1/16W 1	1	
R3211,12	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3234	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3236	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3251-54	ERJ2RKD560	M.RESISTOR CH 1/16W 56	4	
R3255,56	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R3257	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
R3258	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3259	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3260	ERJ2GEJ100	M.RESISTOR CH 1/16W 10	1	
R3501	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3503	ERJ2RHD332	M.RESISTOR CH 1/16W 3.3K	1	
R3504	ERJ2RHD181	M.RESISTOR CH 1/16W 180	1	
R3505,06	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	2	
R3507	ERJ2RHD392	M.RESISTOR CH 1/16W 3.9K	1	
R3514	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3515	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R3516	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3549	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3550	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3551	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3552	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3553	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3554	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3555	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3556	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3557,58	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R3560	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3561,62	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3563	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3564	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R3565	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3568	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1	
R3570	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3572	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3580	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R4000-03	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	4	
R4004,05	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4006-09	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R4010,11	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	2	
R4012,13	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R4014,15	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	2	
R4016,17	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	2	
R4018-21	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4022,23	ERJ3RBD623	M.RESISTOR CH 1/16W 62K	2	
R4024,25	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R4032	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4033	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4034,35	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4036	EXB24V473J	COMBI.R-R 47K	1	
R4037	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4038,39	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	2	
R4042,43	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	2	
R4044,45	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	2	
R4046-49	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	4	
R4050,51	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4052	EXB24V473J	COMBI.R-R 47K	1	
R5004	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5006	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5009-12	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	4	
R5013,14	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R5015	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R6901,02	ERJ2GEJ330	M.RESISTOR CH 1/16W 33	2	
R9007	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9010,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R9014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9023	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R9029	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R9031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TP9001	EYF6CU	TEST POINT	1	
X2002	H0J327200051	CRYSTAL OSCILLATOR	1	
X2003	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	EYF6CU	TEST POINT	2	
■ E3	VEP23598B	CAMERA C.B.A.	1	(RTL)
C100	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C102-07	ECST1AY106Z	T.CAPACITOR CH 10V 10U	6	
C112-14	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	3	
C115-17	ECST1EY155	T.CAPACITOR CH 25V 1.5U	3	
C121-26	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C127	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C128	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C129,30	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C131	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C132,33	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	2	
C134	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C135	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C136-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C139-44	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	6	
C145-50	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C152-54	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C155-57	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3	
C701	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C702	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C703	F1G1C822A040	C.CAPACITOR CH 16V 8200P	1	
C704	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C705	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C706,07	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C708	ECJ0EB1E272K	C.CAPACITOR CH 25V 2700P	1	
C709	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
C710	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C711,12	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C713	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C714	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C715	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C716	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C717	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C718	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C719	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C720	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C721	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C722,23	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C724	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C725	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C727,28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C729	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C730	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C734	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C735	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C737	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C738	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C744	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C745	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C746	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C747	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C748	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C750	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C751	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
C752	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
C753	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C754	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C755	ECJ0EB1A473K	C.CAPACITOR CH 10V 0.047U	1	
C757-59	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C763	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C776	F3F1D4750002	T.CAPACITOR CH 20V 4.7U	1	
C777	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C779	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C780	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C781	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C782	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C783	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C784	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C785	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C786-88	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C789	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C790	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C791	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C794	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C796	ECUX1C274KBN	C.CAPACITOR CH 16V 0.27U	1	
C797	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C798	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C805	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C807	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C813	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C900	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C901	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C902	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C903	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C927	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C928	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	1	
C929	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C930	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C932	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C933	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C934	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C935	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C936	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C937	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
C938	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C940	F3F1C1060002	T.CAPACITOR CH 16V 10U	1	
C941	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1001	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1002,03	F3F1A226A001	T.CAPACITOR CH 10V 22U	2	
C1004	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1010-12	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1017	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1018-23	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1027,28	ECST1EX475	T.CAPACITOR CH 25V 4.7U	2	
C1029	ECJ0EF1C104Z	C.CAPACITOR CH 16V 0.1U	1	
C1030-33	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	4	
C1035	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1036-38	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1039	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1043	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1045	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1046	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1048	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1049	F1H0J1050022	C.CAPACITOR CH6.3V 1U	1	
C1051,52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1053	F3G1A4760002	T.CAPACITOR CH 10V 47U	1	
C1054	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1055	F1K1H1050002	C.CAPACITOR CH 50V 1U	1	
C1056-61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	6	
C1062,63	F1L1E1060018	C.CAPACITOR CH 25V 10U	2	
C1064,65	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	2	
C1067	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1069,70	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C1071	F1L1E1060018	C.CAPACITOR CH 25V 10U	1	
C1079	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1084	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1085	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1086-88	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1089	ECJ0EC1H220J	C.CAPACITOR CH 50V 22P	1	
C1090-92	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C1093	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C1094	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C1601	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1602	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1603	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1604	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1605	F1J0J475A008	C.CAPACITOR CH6.3V 4.7U	1	
C1606	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1651	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1652	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1653	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1655	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1656	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1657	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C1660,61	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2000	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C2001	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2003,04	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C2006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C2007	ECST0JY106R	T.CAPACITOR CH6.3V 10U	1	
C2008-10	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C2011,12	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	2	
C2013	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3000	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3001	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3002	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3003	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C3004-06	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C3007	F1G1H5R00004	C.CAPACITOR CH 50V 5P	1	
C3008	F1G1H8R00003	C.CAPACITOR CH 50V 8P	1	
C3009	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3014	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3020	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3021	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C3022	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3023	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3024	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3025	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3026	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3027	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3029	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C3030	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3031	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3032	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C3033	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C3034	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4112	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4120	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4121	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4122	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4123	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4124	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4125	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D1001	MA3S132A0L	DIODE	1	
D1601	MA3S132E0L	DIODE	1	
D3000	B0JCDD000002	DIODE	1	
IC1	C0CBABC00094	IC	1	
IC2	NJM431U	IC	1	C0DBEZC00003
IC104-06	C1AB00001677	IC	3	
IC701	C0ABCA000053	IC	1	
IC702	C1AB00001159	IC	1	
IC703	C0CBAEC00006	IC	1	
IC704	C1AB00001262	IC	1	
IC710	C0GBG0000028	IC	1	
IC711	C0CBADC00034	IC	1	
IC713	C0CBADC00034	IC	1	
IC717	TC75W54FU	IC	1	
IC719	C0CBADC00034	IC	1	
IC927	C0ABCA000053	IC	1	
IC928	C0ABAA000043	IC	1	
IC929	C0CBADC00034	IC	1	
IC1000	C1ZBZ0002385	PLD	1	
IC1001	C0JBAB000004	IC	1	
IC1002	C0JBAF000162	IC	1	
IC1003	C0JBAB000003	IC	1	
IC1004-06	TC7SH32FU	IC	3	
IC1007	C0JBAE000140	IC	1	
IC1008	C0JBAA000102	IC	1	
IC1010	TC7SH04FU	IC	1	
IC1011	C0JBAA000102	IC	1	
IC1013	C0JBAD000071	IC	1	
IC1014	TC7SH32FU	IC	1	
IC1015,16	C0JBAB000543	IC	2	
IC1022,23	UPD16510GR	IC	2	
IC1024	C0JBAA000182	IC	1	
IC1025	C0JBAE000140	IC	1	
IC2000	MN7GD02B5DB	IC	1	
IC2002	TC7W74FU	IC	1	
IC2003	C0JBAF000162	IC	1	
IC3000	TC7SH04FU	IC	1	
IC3001	C0FBAF000029	IC	1	
IC3002,03	TC7SH14FU	IC	2	
IC3005	C0JBAA000102	IC	1	
IC3006	C3EBHC000015	IC	1	
IC3500	MN103S33NSA	IC	1	
IC4105	C0ABAA000046	IC	1	
L100-02	VLQ0807K100	COIL 10UH	3	G1C100K00024
L701	VLQ0807K100	COIL 10UH	1	G1C100K00024
L702	VLQ0807K220	COIL 22UH	1	G1C220K00016
L703	VLQ0807K100	COIL 10UH	1	G1C100K00024
L708,09	VLQ0807K100	COIL 10UH	2	G1C100K00024
L900	VLQ0807K100	COIL 10UH	1	G1C100K00024
L927	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1000,01	G1C100K00025	COIL 10UH	2	
L1002	VLQ0807K100	COIL 10UH	1	G1C100K00024
L1003	G1C100KA0004	COIL 10UH	1	
L1006	VLQ0807K100	COIL 10UH	1	G1C100K00024
L2000	VLQ0807K100	COIL 10UH	1	G1C100K00024

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L2001	G1C4R7MA0031	COIL 4.7UH	1	
L2003	G1C100K00019	COIL 10UH	1	
L3001	VLQ0807K100	COIL 10UH	1	G1C100K00024
L4104	G1C100K00019	COIL 10UH	1	
P1	K1KA40A00217	CONNECTOR (MALE)	1	
P2	K1KAC0A00023	CONNECTOR (MALE)	1	
P3	K1MN20B00028	CONNECTOR	1	
P4	K1MN10A00045	CONNECTOR	1	
P5	VJP3949A080H	CONNECTOR (MALE)	1	
P6	K1KA40A00216	CONNECTOR (MALE)	1	
P7	VJS3791D016	CONNECTOR (FEMALE)	1	
P8	VJS3826C050	CONNECTOR (FEMALE)	1	
Q701	2SB0970X0L	TRANSISTOR	1	
Q702	B1ADGD000005	TRANSISTOR	1	
Q708	2SB0970X0L	TRANSISTOR	1	
Q927	2SD2216J0L	TRANSISTOR	1	
Q928	2SD0601A0L	TRANSISTOR	1	
Q1601	2SB1462J0L	TRANSISTOR	1	
Q1602	XP1501	TRANSISTOR-RESISTOR	1	
Q1603	2SD1819A-R	TRANSISTOR	1	
Q1604	2SB1462J0L	TRANSISTOR	1	
Q1605	2SD2216J0L	TRANSISTOR	1	
Q1606	2SB1462J0L	TRANSISTOR	1	
Q1651	2SD2216J0L	TRANSISTOR	1	
Q1652	XP1401	TRANSISTOR-RESISTOR	1	
Q1653	2SB1218A-R	TRANSISTOR	1	
Q1654	2SD2216J0L	TRANSISTOR	1	
Q3000	XN0460100L	TRANSISTOR-RESISTOR	1	
Q3001	2SD1979	TRANSISTOR	1	
QR701	UN9211	TRANSISTOR-RESISTOR	1	
QR705	UN9211	TRANSISTOR-RESISTOR	1	
QR708,09	UN9213	TRANSISTOR-RESISTOR	2	
QR1601	UNR9113J0L	TRANSISTOR	1	
QR1602	UNR9111J0L	TRANSISTOR	1	
QR1651	UN9213	TRANSISTOR-RESISTOR	1	
QR3000,01	UNR9215J0L	TRANSISTOR	2	
QR3002	B1GDBEJG0002	TRANSISTOR	1	
R1,R2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R100-02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R110-12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R702	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R703,04	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	2	
R705	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R706	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R707	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R708	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R709	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R714	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R715	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R718	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R719	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R720	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R721	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R722	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R723,24	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2	
R725,26	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R727	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R728	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R729	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R730	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R731	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R732	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R733	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R734,35	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	2	
R737	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R738	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R739	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R740	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R741	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R742,43	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R744	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R745	ERJ6GEYJ3R9	M.RESISTOR CH 1/10W 3.9	1	
R746	ERJ2GEJ155	M.RESISTOR CH 1/16W 1.5M	1	
R747	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
R748	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R749	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R750	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R751	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R752	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R754	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R755	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R760	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R765	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R768	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R770	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R771	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	1	
R776	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R778	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R779	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R780	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1	
R781	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R786	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R787	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R788	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R789	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R793	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R794	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R797	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R798	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R799	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R801,02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R803,04	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R805	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R807	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R809	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R810	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R823	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R825	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R862	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R892	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R896	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R901	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R903	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R904-06	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3	
R909	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R911	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R919	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R920	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R926	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R927	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1	
R928	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R929	ERJ2GEJ564	M.RESISTOR CH 1/16W 560K	1	
R930	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
R931,32	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R933	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
R934	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R935	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R936	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R937	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R938	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R939,40	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R941	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R942	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R943	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
R944	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R945	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R946	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R947	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R948	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R949	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R954	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R979	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R980	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R990	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R991	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R992	ERJ8GEYJ2R2	M.RESISTOR CH 1/8W 2.2	1	
R993	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R994	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R995,96	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R997,98	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R999	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1020	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1023	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1056	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1167	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1175	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1178,79	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R1182	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1183	ERJ2RMJ391	M.RESISTOR CH 1/16W 390	1	
R1185	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
R1186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1191	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1193	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1194	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R1195,96	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1198,99	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1200	ERJ2GEJ270	M.RESISTOR CH 1/16W 27	1	
R1201-07	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	7	
R1601	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1602	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1603	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R1604	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1607	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
R1608	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1609	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1610	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1612	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
R1613	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
R1614	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
R1615	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R1616	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
R1617	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1618	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1620	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1651	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1652	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R1653	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1654	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1655	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1657	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1658	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1	
R1659	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R1660	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1662	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R1663	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
R1664	ERJ2RKD154	M.RESISTOR CH 1/16W 150K	1	
R1666	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R1667	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R1668	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R1669,70	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R1673	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2003	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2004,05	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R2006,07	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	2	
R2009	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2010,11	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R2014	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R2018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2022	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R2029,30	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R2096	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3012,13	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3014-16	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R3017	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3018	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3019	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3020-22	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R3023	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3024	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3026	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3031	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3032	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
R3033	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3034,35	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3036,37	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	2	
R3038	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3039	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3040	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3041-44	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	
R3046	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3047	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3048	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3049	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3051	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3052	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3055	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3057	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R3059	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3060	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R3061	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R3062	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3063,64	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3078	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3083,84	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3089	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3091	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3095	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3098	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3105	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3107	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3109,10	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2	
R3116	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3118	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3154	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3156	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3157	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R3158	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R3163	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3164	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R3165	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3166,67	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R3168,69	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3170-73	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	4	
R3175	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3178	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3179	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3181	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
R3182	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3183	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3184	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
R3185	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
R3186	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3187	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R3188	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3189	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3190	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R3191,92	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R3195	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R3196	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R3198,99	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R3201	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R3207	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3210	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R3211	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4115-18	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4119,20	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2	
R4156	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4157	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R4166-71	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	6	
R4173	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
X1000	H1A3155B0002	CRYSTAL OSCILLATOR	1	
X3000	H0J270500024	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VSC5623	CAMERA PCB HEAT SINK (L)	1	
	VSC5624	CAMERA PCB HEAT SINK (U)	1	
	VGQ8094	COOLING SHEET CR	1	
	VGQ8096	COOLING SHEET_C2	1	
	VGQ8097	COOLING SHEET_C3	5	
	XQN16+B3FN	SCREW	2	
■ E4	VEP06F67A	FRONT C.B.A.	1	(RTL)
C6301	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6302	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1	
C6303	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
C6304	F3F1A226A001	T.CAPACITOR CH 10V 22U	1	
C6306,07	F1J0J106A014	T.CAPACITOR CH6.3V 10U	2	
C6308	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6310	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C6312	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C6313	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C6314	F3G1C2260001	T.CAPACITOR CH 16V 22U	1	
D6301,02	B3EA00000029	LED	2	
IC6301	B3MAZ0000028	PHOTO DETECTOR	1	
IC6302	L2ES00000011	SENSOR UNIT	1	
IC6303	C0ABBA000077	IC	1	
IC6304	C0JBAS000063	IC	1	
L6301-03	G1C100K00019	COIL 10UH	3	
P6301	VJS3791D016	CONNECTOR (FEMALE)	1	
P6302	VJS3791D010	CONNECTOR (FEMALE)	1	K1MN10B00021
R6301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6305	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6306,07	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R6308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R6310	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R6311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8013	FRONT PCB BASE	1	
	VJF1495	LED HOLDER	1	
	XQN16+B3FN	SCREW	3	
	XQN16+B4FN	SCREW	1	
■ E5	VEP04861A	SIDE JACK FPC C.B.A.	1	(RTL)
C4101	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C4102,03	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C4104	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4105-08	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	4	
C4109,10	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	2	
C4111,12	ECST0JY226	T.CAPACITOR CH6.3V 22U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4113	ECJ1VB0J105K	C.CAPACITOR CH 35V 1M	1	
C4115	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
D4101	MA132WA	DIODE	1	
D4102	MA2SD2400L	DIODE	1	
D4103	B3GA00000041	DIODE	1	
J4101	K2HZ104A0002	S TERMINAL JACK	1	
J4102	K2HC106B0010	AC POWER PLUG	1	
J4103	K2HC107B0003	AC POWER PLUG	1	
L4101	J0JBC0000054	FILTER	1	
L4102-04	J0JAC0000014	FILTER	3	
L4105,06	J0JBC0000054	FILTER	2	
L4107	J0JAC0000014	FILTER	1	
L4108-12	J0JAC0000015	FILTER	5	
L4113	J0JCC0000119	FILTER	1	
L4114	J0JAC0000015	FILTER	1	
P4101	K1MN33B00023	CONNECTOR	1	
Q4101	2SD103000L	TRANSISTOR	1	
Q4102	B1ABBE000002	TRANSISTOR	1	
Q4103	2SD2216J0L	TRANSISTOR	1	
Q4104	2SB1462J0L	TRANSISTOR	1	
Q4105	2SD2216J0L	TRANSISTOR	1	
Q4106	2SB1462J0L	TRANSISTOR	1	
Q4107	2SD1819A-R	TRANSISTOR	1	
QR4101	B1GDBEHH0001	TRANSISTOR	1	
R4101	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4102	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4104	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4105	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R4106	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4109	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4111	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4113	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4114	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4116	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4117	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4118	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4119	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4120	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R4121	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4123	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4124	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4131-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
TH4101	D4CC11030012	THERMISTOR	1	
■ E7	VEP01957A	DC IN C.B.A.	1	(RTL)
		MISCELLANEOUS		
	VJS3381	CONNECTOR (FEMALE)	1	K2EC2B000001
■ E8	VEP01953A	BATTERY C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA03B00102	CONNECTOR (MALE)	1	
R1	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
■ E9	VEP06F66A	ZOOM FPC C.B.A.	1	(RTL)
SW201	EVQQW101M	SWITCH	1	
VR201	D2B1B15B0001	V.RESISTOR 100K	1	
■ E10	VEP001E3A	ZOOM CON C.B.A.	1	(RTL)
D1	MA142K	DIODE	1	
P1	K1MN06B00077	CONNECTOR	1	
P2	K1MN10B00052	CONNECTOR	1	
■ E11	VEP001E5A	CAS OPEN C.B.A.	1	(RTL)
SW501	K0L1BB000022	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z34	CAS OPEN HARNESS	1	
■ E12	VEP04863A	REAR JACK C.B.A.	1	(RTL)
J4301	VJJ0182	SYNC EDIT JACK	1	K2HB103B0015
J4302	K2YZ04000016	PLUG AND JACK	1	
J4303	K2HC106B0010	AC POWER PLUG	1	
L4301,02	VLF1315A102	FILTER	2	J0JHC0000015
L4304,05	J0MAB0000110	FILTER	2	
L4306	VLF1394	FILTER	1	J0MAB0000077
P4301	K1MN10B00052	CONNECTOR	1	
P4302	VJS3801D024	CONNECTOR (FEMALE)	1	
R4301,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4304,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
		MISCELLANEOUS		
	VMP8003	REAR P.C.B.FIX ANGLE	1	
	XQN16+B4FN	SCREW	2	
■ E13	VEP001E8A	R-SIDE FPC C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1KA60A00148	CONNECTOR (MALE)	1	
■ E14	VEP06F68A	R-SIDE C.B.A.	1	(RTL)
B6401	VSB0407	BATTERY	1	
C6402-06	F1L1E1060018	C.CAPACITOR CH 25V 10U	5	
D6401	B0JDAD000001	DIODE	1	
D6402	MA3S781D0L	DIODE	1	
D6403,04	B0JDAD000001	DIODE	2	
D6405,06	MA3S781D0L	DIODE	2	
D6407	B0JDAD000001	DIODE	1	
P6401	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P6402	VJS3791D016	CONNECTOR (FEMALE)	1	
P6403	K1MN61B00001	CONNECTOR	1	
P6404	K1MN27B00053	CONNECTOR	1	
P6405	K1KA02B00053	CONNECTOR (MALE)	1	
R6401	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
SW6401-05	EVQPLPA08	SWITCH	5	
SW6406-13	K0H1BA000442	SWITCH	8	
SW6414	K0D112B00055	SWITCH	1	
■ E15	VEP06F64A	CAMERA OP C.B.A.	1	(RTL)
P6001	VJS3791D016	CONNECTOR (FEMALE)	1	
P6002	K1MN06B00013	CONNECTOR	1	
SW6001-05	EVQPLPA08	SWITCH	5	
■ E16	VEP001E1A	LCD OPEN C.B.A.	1	(RTL)
SW101	K0L1BA000015	SWITCH	1	
		MISCELLANEOUS		
	VEE0Z35	LCD OPEN HARNESS	1	
	VMP8017	LCD SW ANGLE	1	
	XQN16+B3FN	SCREW	1	
■ E17	VEP001E4A	TALLY C.B.A.	1	(RTL)
D401	B3AAB0000129	LED	1	
R401	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
■ E18	VEP001E0A	EVF CON C.B.A.	1	(RTL)

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	K1MN18B00048	CONNECTOR	1	
P2	K1MN07B00070	CONNECTOR	1	
P3	K1MN31B00015	CONNECTOR	1	
■ E19	VEP04828A	MIC U C.B.A.	1	(RTL)
C4801-04	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	4	
C4806	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4808	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C4809	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4810	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4811	F1G1C223A004	C.CAPACITOR CH 16V 0.022U	1	
C4812	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C4813	F3E0J106A005	T.CAPACITOR CH6.3V 10U	1	
C4814	ECST0JY226	T.CAPACITOR CH6.3V 22U	1	
FP4801	K1MN07B00072	CONNECTOR	1	
IC4801	C0ABCB000051	IC	1	
M4801-04	WM-61B102A	ECM	4	
Q4801	2SD2216J	TRANSISTOR	1	
R4801-04	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	4	
R4805-12	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	8	
R4813	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R4814	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R4815	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
		MISCELLANEOUS		
	VMT1249	MIC DUNPER	1	
■ E20	VEP28272B	EVF A C.B.A.	1	(RTL)
REF1	K1MN16B00039	CONNECTOR	1	
REF2	K1MN19B00029	CONNECTOR	1	
■ E21	VEP28275B	EVF B C.B.A.	1	(RTL)
REF1	A2CD00000030	TRANSISTOR	1	
REF2	B1DFCL000006	TRANSISTOR	1	
REF3	ETJ11K90AM	TRANSFORMER	1	
REF4	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
REF5	G1C100KA0005	COIL 10UH	1	
■ E22	VEP001G2A	MENU FPC C.B.A.	1	(RTL)
SW1	EVQPLPA08	SWITCH	1	
VR1	K9AA01500005	SWITCH	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP8020	CAM OP ANGLE	1	
	XQN16+B3FN	SCREW	2	
■ E23	VEP26257B	MONITOR C.B.A.	1	(RTL)
■	VEP06E80A	HALL SENSOR FLEX C.B.A.	1	(RTL)FOR VEP26257B
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C902	F3F0G476A009	T.CAPACITOR CH 4V 47U	1	
C903	F3F0J226A007	T.CAPACITOR CH6.3V 22U	1	
C905,06	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
C907	F3F0J335A008	T.CAPACITOR CH6.3V 3.3U	1	
C908,09	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C910-13	F1H0J474A002	C.CAPACITOR CH6.3V 0.47U	4	
C914	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C915	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C916-19	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	4	
C923	ECJ1VC1H471G	C.CAPACITOR CH 50V 470P	1	
C925	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
C930	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C931	ECJ0EC1H330J	C.CAPACITOR CH 50V 33P	1	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	1	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	1	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C935	ECJ0EB1C682K	C.CAPACITOR CH 16V 6800P	1	
C936,37	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C938	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C939	ECJ1VC1H331G	C.CAPACITOR CH 50V 330P	1	
C940	ECJ0EC1H560J	C.CAPACITOR CH 50V 56P	1	
C941	F1G1H100A448	C.CAPACITOR CH 50V 10P	1	
C942	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C943,44	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	2	
C945	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C946	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
C947,48	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	2	
C949	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C950	F1J1C105A091	C.CAPACITOR CH 16V 1U	1	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
D901	MA338	DIODE	1	MA2X338
D902	MA6Z12100L	DIODE	1	
D903	MA3S132D0L	DIODE	1	
D904	MA4X159A0L	DIODE	1	
D905,06	B0JCEE000002	DIODE	2	
D907	MA111	DIODE	1	
D908	MAZ80270LL	DIODE	1	
D909	MA8043-M	DIODE	1	
D910	B0BC6R100014	DIODE	1	
FP901	K1MN24B00068	CONNECTOR	1	
FP903	K1MN25B00035	CONNECTOR	1	
IC901	C0HBA0000071	IC	1	
IC903	C0JBAB000350	IC	1	
IC904	C0JBAB000391	IC	1	
IC905	SN74LV04APW	IC	1	C0JBAB000247
IC991	DN8797MSC	IC	1	FOR VEP26257B
L901-04	VLQ0807K100	COIL 10UH	4	G1C100K00024
L905	G1C100MA0031	COIL 10UH	1	
L907	VLQ0426J3R3	COIL 3.3UH	1	G1C3R3J00009
Q901	B1ADCF000059	TRANSISTOR	1	
Q902	B1CFNG000001	TRANSISTOR	1	
Q903	XP0460100L	TRANSISTOR	1	
Q904	XP1501	TRANSISTOR-RESISTOR	1	
Q905	B1ACGD000006	TRANSISTOR	1	
Q906-08	XP0460100L	TRANSISTOR	3	
QR901,02	B1GBCFNA0014	TRANSISTOR	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR903	B1GBCFJN0017	TRANSISTOR	1	
QR904	UNR9214J0L	TRANSISTOR	1	
R901-03	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	3	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	1	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	1	
R906	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R907-09	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	3	
R910,11	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	2	
R912-14	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	3	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R919	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R921	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R923	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R924	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R925	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
R926	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
R927	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
R928	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
R929	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R930,31	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R933	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R935	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R937	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R940	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R941-43	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	3	
R944	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R945	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
R946	ERJ2RHD823	M.RESISTOR CH 1/16W 82K	1	
R947	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
R951	ERJ2GEJ560	M.RESISTOR CH 1/16W 56	1	
R952	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
R953	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R954	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R955	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R956	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R957	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R958	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R959	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	
R960	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R961	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
R962	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R963	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R964	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
R965,66	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	2	
R967	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R968,69	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2	
R970	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1	
R971	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R972	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R973,74	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	2	
R975	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
R976	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R977	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R979	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R985,86	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	2	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
T901	ETJ09K44AZ	TRANSFORMER	1	
T902	EFTU21R203	TRANSFORMER	1	
W901	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W902	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

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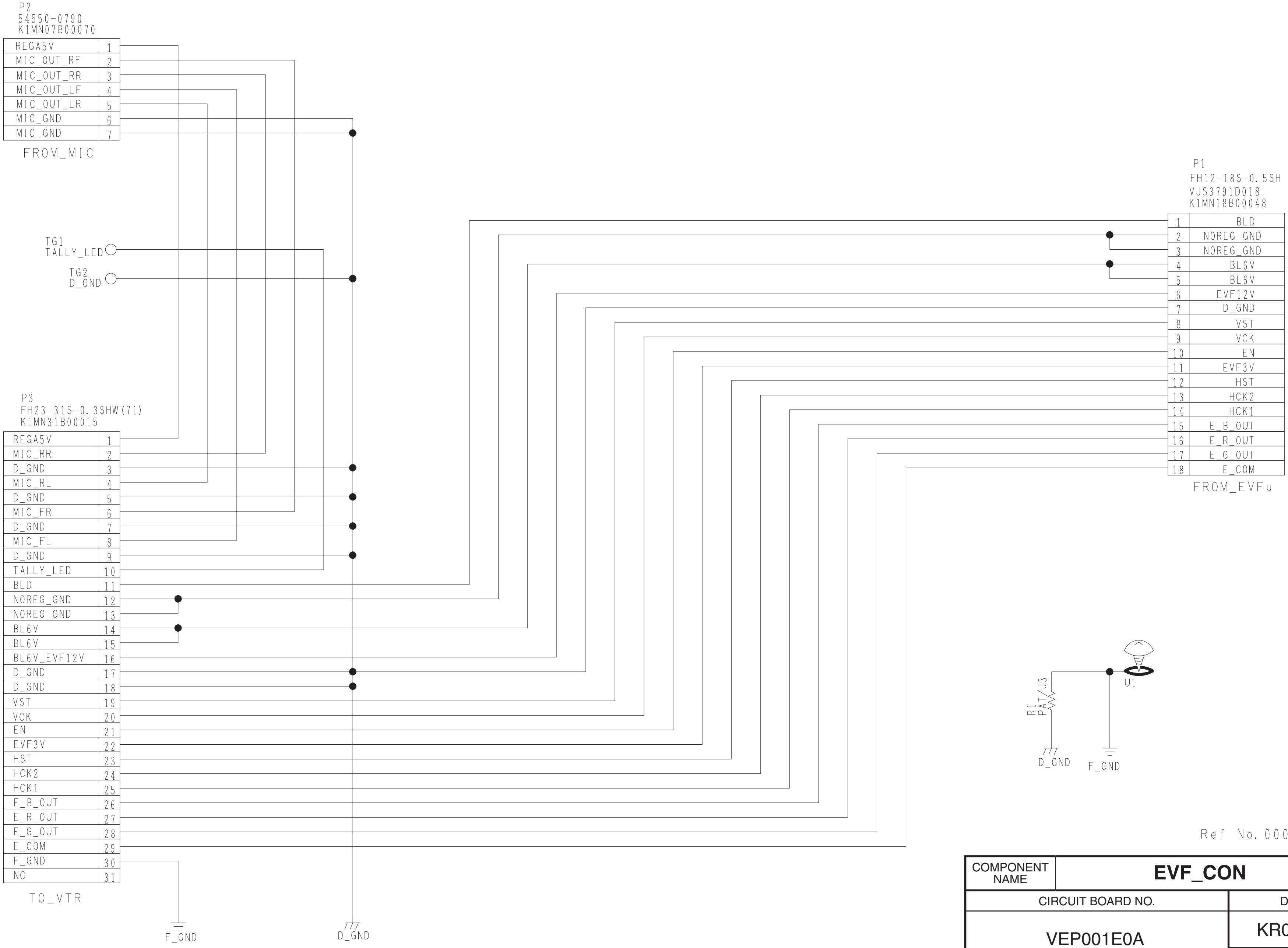
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP04875A	MAIN C.B.A.	1	(RTL)
■ E2	VEP01956A	POWER C.B.A.	1	(RTL)
■ E3	VEP04869A	XLR C.B.A.	1	(RTL)
■ E4	VEP04870A	SW C.B.A.	1	(RTL)
■ E5	VEP04871A	VR C.B.A.	1	(RTL)
■ E1	VEP04875A	MAIN C.B.A.	1	(RTL)
C401,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C403-06	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	4	
C407,08	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
C409,10	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C411-13	F3H1D2260003	T.CAPACITOR CH 20V 22U	3	
C414-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C451	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C452-54	F3H1D2260003	T.CAPACITOR CH 20V 22U	3	
C455	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C456,57	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
C458	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C459,60	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C461	F3H1D2260003	T.CAPACITOR CH 20V 22U	1	
D401-04	MA3J14300L	DIODE	4	
D451	MA142K	DIODE	1	
IC401,02	NJM2122M	IC	2	
IC403,04	TA75W558FU	IC	2	C0ABBA000042
IC405,06	TC7W53FU	IC	2	
IC451	TC7W53FU	IC	1	
IC452	TA75W558FU	IC	1	C0ABBA000042
IC453	AN77L09M	IC	1	
P451	K1ZZ00001280	CONNECTOR	1	
P452	VJS3846A030	CONNECTOR (FEMALE)	1	
P453	K1KA08A00434	CONNECTOR (MALE)	1	
P454	K1ZZ00001280	CONNECTOR	1	
Q401	2SD1819A-R	TRANSISTOR	1	
Q451	2SD1819A-R	TRANSISTOR	1	
QR401,02	UNR521300L	TRANSISTOR	2	
QR403,04	UNR511300L	TRANSISTOR	2	
QR405,06	UNR521300L	TRANSISTOR	2	
R401,02	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	2	
R403	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R405	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R407-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	12	
R419	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R420	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R421	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R422,23	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	2	
R424,25	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R426,27	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R451-53	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	3	
R454	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R455	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R456	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R457,58	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R459,60	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R463-65	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
■ E2	VEP01956A	POWER C.B.A.	1	(RTL)
C1801	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C1802	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1803,04	VCK0303K225	C.CAPACITOR 2.2U	2	
C1806	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C1809	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1811	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C1812	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C1813	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1815	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C1816	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C1818	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	1	
C1819-24	VCK0303K225	C.CAPACITOR 2.2U	6	
C1825	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1826	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C1827	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C1828	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1829	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1830	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1831	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
C1832	F1L2A1050004	C.CAPACITOR CH100V 0.2U	1	
C1833	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
D1803	MA111	DIODE	1	
D1805	MA2S11100L	DIODE	1	
D1807	MA2S11100L	DIODE	1	
D1808	U1GU44	DIODE	1	
D1809	MA3J70000L	DIODE	1	
D1811	MA3S132E0L	DIODE	1	
D1812	MA8120-M	DIODE	1	
D1813,14	MAZ82700ML	DIODE	2	
IC1802	BA9743AFV	IC	1	C0DBAZC00010
L1801,02	J0JBC0000019	FILTER	2	
L1803	G1C100K00016	COIL 10UH	1	
L1804	VLQ0319K100	COIL 10UH	1	G1C100K00023
L1805	G1C331M00006	COIL 330UH	1	
L1806,07	G1C100K00019	COIL 10UH	2	
P1801	K1ZZ00001279	CONNECTOR	1	
P1802	K1KA02A00079	CONNECTOR (MALE)	1	
Q1801	B1ADCF000059	TRANSISTOR	1	
Q1803	B1DHCC000029	TRANSISTOR	1	
Q1805	XP0460100L	TRANSISTOR	1	
Q1806	2SJ278	TRANSISTOR	1	
Q1807	XP0460100L	TRANSISTOR	1	
Q1808	2SD1328-R	TRANSISTOR	1	
QR1801	UNR9214J0L	TRANSISTOR	1	
QR1802	UNR9113J0L	TRANSISTOR	1	
QR1803	UN9112J	TRANSISTOR	1	
QR1804,05	UN9213	TRANSISTOR-RESISTOR	2	
QR1806,07	UNR9113J0L	TRANSISTOR	2	
R1801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1802	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1803	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1804	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1806	ERJ3RHD243	M.RESISTOR CH 1/16W 24K	1	
R1807	ERJ3RHD393	M.RESISTOR CH 1/16W 39K	1	
R1808,09	ERJ3RHD333	M.RESISTOR CH 1/16W 33K	2	
R1810	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1812	ERJ3RHD683	M.RESISTOR CH 1/16W 68K	1	
R1813	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R1816,17	ERJ3RHD333	M.RESISTOR CH 1/16W 33K	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

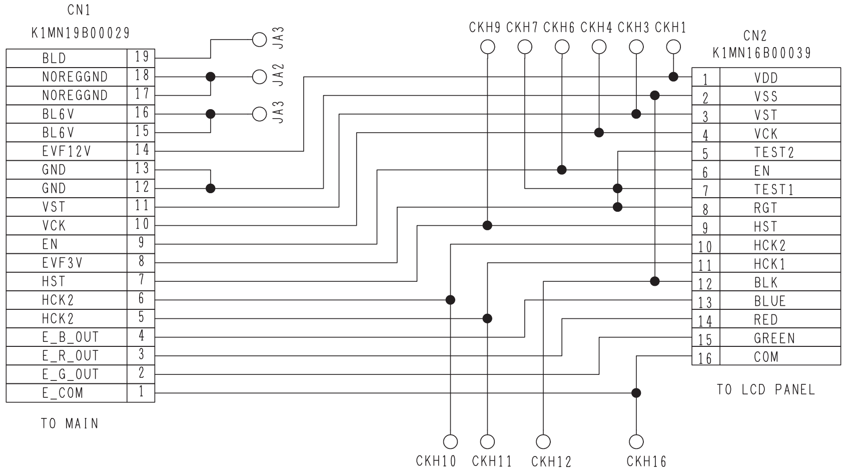
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1818	ERJ3RHD223	M.RESISTOR CH 1/16W 22K	1	
R1819	ERJ3RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1820	ERJ3RHD271	M.RESISTOR CH 1/16W 270	1	
R1826	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1827	ERJ3RHD104	M.RESISTOR CH 1/16W 100K	1	
R1828	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1829	ERJ3RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R1830	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R1831	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1832	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1833	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1837	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1838	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1841	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1842	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1843	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1844	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1845	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R1846	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1847	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1849,50	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R1851,52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1854	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1856	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
T1801	G5DYA0000051	TRANSFORMER	1	
■ E3	VEP04869A	XLR C.B.A.	1	(RTL)
C301,02	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C303	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C304,05	EEVHP1H4R7	E.CAPACITOR 50V 4.7U	2	
C306	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C310	EEVHB1H3R3	E.CAPACITOR 50V 3.3U	1	
C351,52	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C353	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C354,55	EEVHP1H4R7	E.CAPACITOR 50V 4.7U	2	
C356	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
J301	K1AB103A0007	CONNECTOR (MALE)	1	
J351	K1AB103A0007	CONNECTOR (MALE)	1	
L301,02	VLQ0163J100	COIL 10UH	2	G1C100J00001
L303	VLF1315A102	FILTER	1	J0JHC0000015
L305	VLF1315A102	FILTER	1	J0JHC0000015
L307	VLF1315A102	FILTER	1	J0JHC0000015
L351,52	VLQ0163J100	COIL 10UH	2	G1C100J00001
L353	VLF1315A102	FILTER	1	J0JHC0000015
L355	VLF1315A102	FILTER	1	J0JHC0000015
L357	VLF1315A102	FILTER	1	J0JHC0000015
P301	VJS3826A013	CONNECTOR (FEMALE)	1	
P302	K1KA02A00079	CONNECTOR (MALE)	1	
P351	VJS3826A013	CONNECTOR (FEMALE)	1	
Q301	2SB1220-R	TRANSISTOR	1	
Q302	2SD1824	TRANSISTOR	1	
Q351	2SB1220-R	TRANSISTOR	1	
QR301	UNR521300L	TRANSISTOR	1	
QR351	UNR521300L	TRANSISTOR	1	
R303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R304	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R305,06	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R307	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R308	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R309,10	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R311,12	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R313,14	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R353	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R354	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R355,56	ERJ12YJ682	M.RESISTOR CH 1/2W 6.8K	2	
R357	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R358	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R359,60	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R361,62	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R363,64	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	2	
■ E4	VEP04870A	SW C.B.A.	1	(RTL)
D201	MA142WK	DIODE	1	
P251	K1KA30B00055	CONNECTOR (MALE)	1	
P252,53	VJS3826A013	CONNECTOR (FEMALE)	2	
QR251,52	UNR521300L	TRANSISTOR	2	
R201,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R206	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R208,09	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R212	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R251,52	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
SW201	K0D142A00034	SWITCH	1	
SW202-04	K0D122A00126	SWITCH	3	
SW205	K0D142A00034	SWITCH	1	
SW206,07	K0D122A00126	SWITCH	2	
■ E5	VEP04871A	VR C.B.A.	1	(RTL)
C101,02	F3H1D2260003	T.CAPACITOR CH 20V 22U	2	
P101	K1ZZ00001279	CONNECTOR	1	
R101	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R103	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R105-10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R113	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
VR101,02	D2BBA14A0002	V.RESISTOR 10K	2	

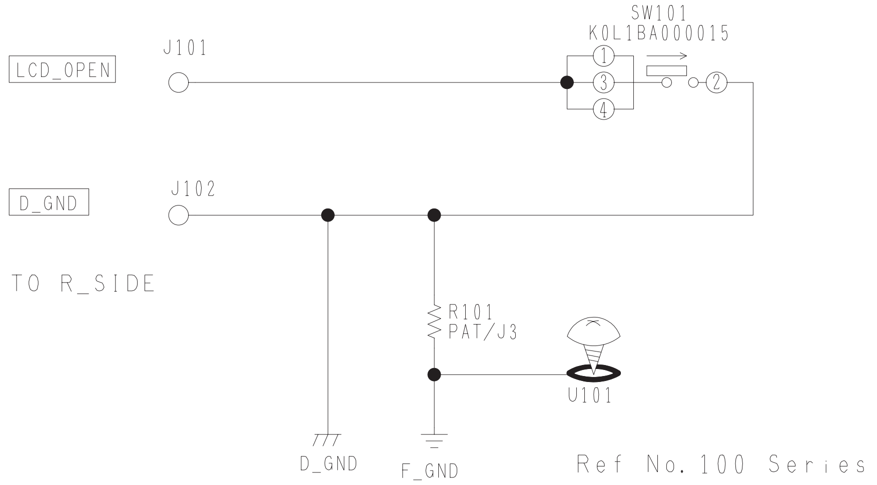

P2
54550-0790
K1MN07B00070
REGA5V 1
MIC_OUT_RF 2
MIC_OUT_RR 3
MIC_OUT_LF 4
MIC_OUT_LR 5
MIC_GND 6
MIC_GND 7
FROM_MIC
TG1
TALLY_LED
TG2
D_GND
P3
FH23-31S-0.3SHW(71)
K1MN31B00015
REGA5V 1
MIC_RR 2
D_GND 3
MIC_RL 4
D_GND 5
MIC_FR 6
D_GND 7
MIC_FL 8
D_GND 9
TALLY_LED 10
BLD 11
NOREG_GND 12
NOREG_GND 13
BL6V 14
BL6V 15
BL6V_EVF12V 16
D_GND 17
D_GND 18
VST 19
VCK 20
EN 21
EVF3V 22
HST 23
HCK2 24
HCK1 25
E_B_OUT 26
E_R_OUT 27
E_G_OUT 28
E_COM 29
F_GND 30
NC 31
TO_VTR
F_GND
D_GND
P1
FH12-18S-0.5SH
VJS3791D018
K1MN18B00048
1 BLD
2 NOREG_GND
3 NOREG_GND
4 BL6V
5 BL6V
6 EVF12V
7 D_GND
8 VST
9 VCK
10 EN
11 EVF3V
12 HST
13 HCK2
14 HCK1
15 E_B_OUT
16 E_R_OUT
17 E_G_OUT
18 E_COM
FROM_EVFu
R1
PAT/J3
U1
D_GND
F_GND

Ref No.000 Series

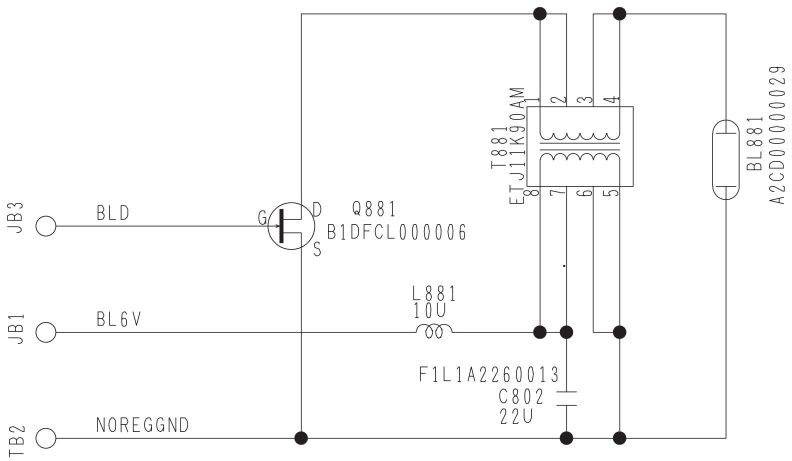
COMPONENT NAME	**EVF_CON**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E0A	KR0A0070 (1/1)	
	SCM031	


CN1
K1MN19B00029
BLD 19
NOREGGND 18
NOREGGND 17
BL6V 16
BL6V 15
EVF12V 14
GND 13
GND 12
VST 11
VCK 10
EN 9
EVF3V 8
HST 7
HCK2 6
HCK2 5
E_B_OUT 4
E_R_OUT 3
E_G_OUT 2
E_COM 1
TO MAIN
JA3
JA2
JA3
CKH9 CKH7 CKH6 CKH4 CKH3 CKH1
CN2
K1MN16B00039
1 VDD
2 VSS
3 VST
4 VCK
5 TEST2
6 EN
7 TEST1
8 RGT
9 HST
10 HCK2
11 HCK1
12 BLK
13 BLUE
14 RED
15 GREEN
16 COM
TO LCD PANEL
CKH10 CKH11 CKH12 CKH16

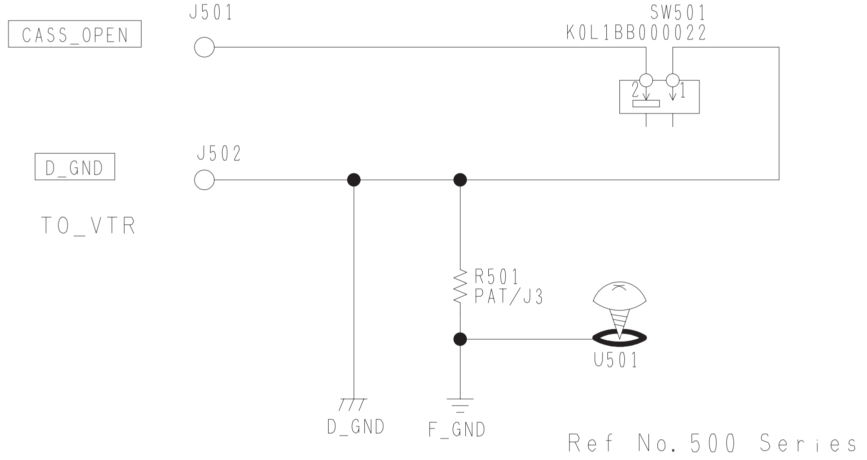
COMPONENT NAME	**EVF_A**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28272B	KR8840 (1/1) **SCM034**	


LCD_OPEN
J101
SW101
K0L1BA000015
1
3
2
4
D_GND
J102
TO R_SIDE
R101
PAT/J3
U101
D_GND
F_GND
Ref No.100 Series

COMPONENT NAME	**LCD_OPEN**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E1A	KR0A0071 (1/1) **SCM034**	


T881
ETJ11K90AM
1 2 3 4
8 7 6 5
BL881
A2CD00000029
JB3
BLD
G
D
S
Q881
B1DFCL000006
JB1
BL6V
L881
10U
F1L1A2260013
C802
22U
TB2
NOREGGND

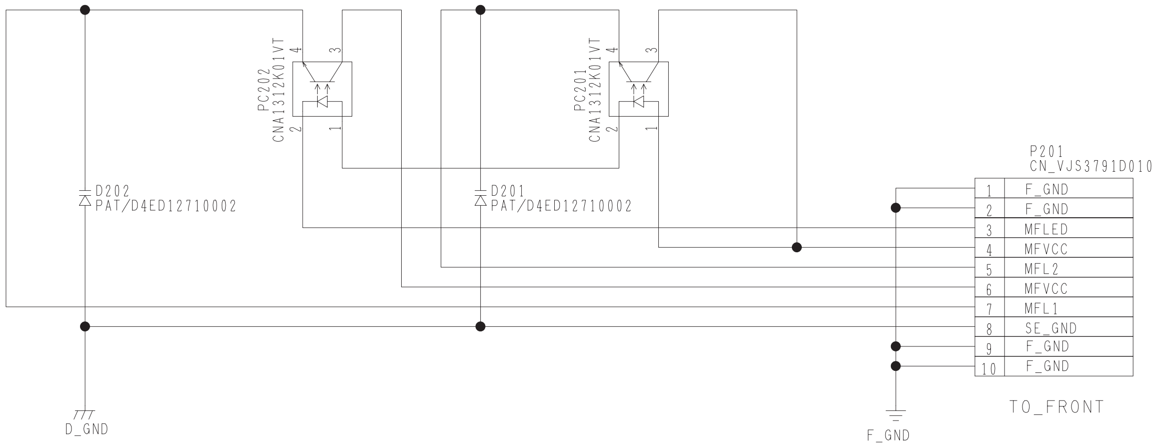
COMPONENT NAME	**EVF_B**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP28275B	KR8841 (1/1) **SCM034**	

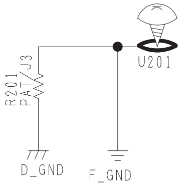

CASS_OPEN
J501
SW501
K0L1BB000022
2
1
D_GND
J502
TO_VTR
R501
PAT/J3
U501
D_GND
F_GND
Ref No.500 Series

COMPONENT NAME	**CAS_OPEN**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E5A	KR0A0075 (1/1) **SCM034**	

A B C D E F G H I J

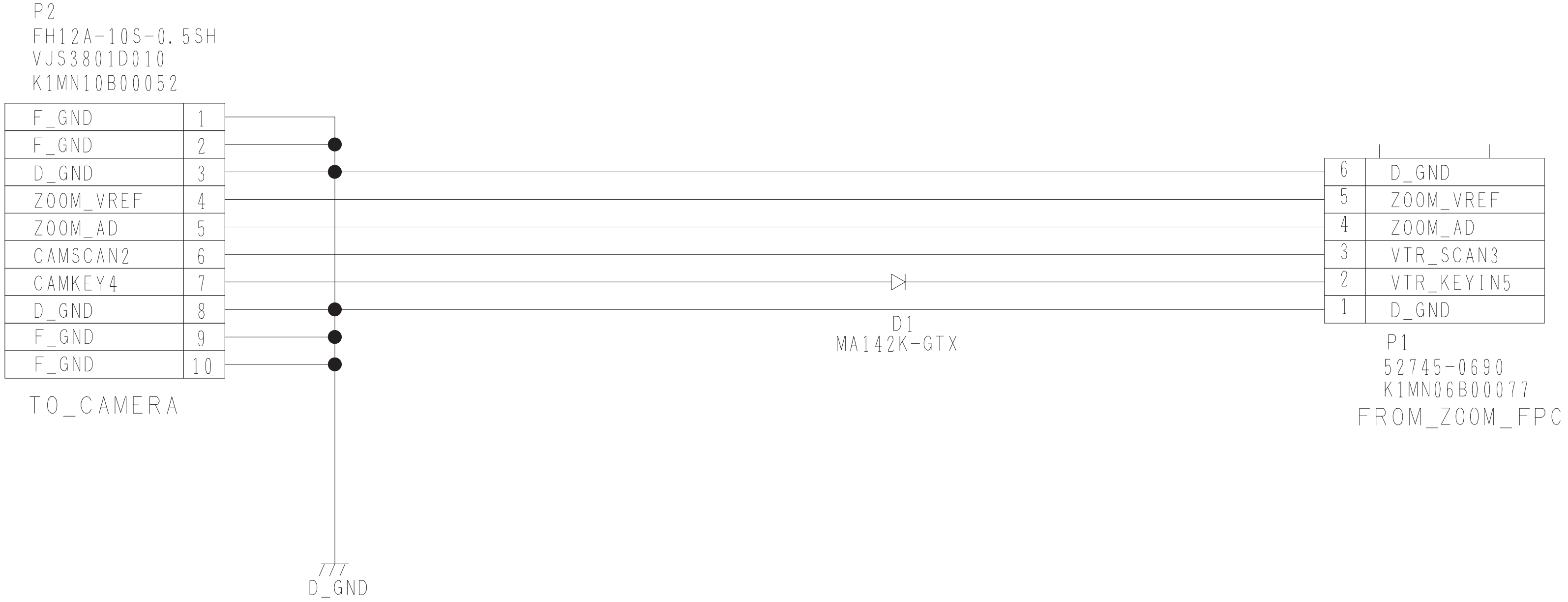
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


PC202
CNA1312K01VT
4
3
2
1
PC201
CNA1312K01VT
4
3
2
1
D202
PAT/D4ED12710002
D201
PAT/D4ED12710002
P201
CN_VJS3791D010
1 F_GND
2 F_GND
3 MFLED
4 MFVCC
5 MFL2
6 MFVCC
7 MFL1
8 SE_GND
9 F_GND
10 F_GND
TO_FRONT
D_GND
F_GND


U201
R201
PAT/J3
D_GND
F_GND

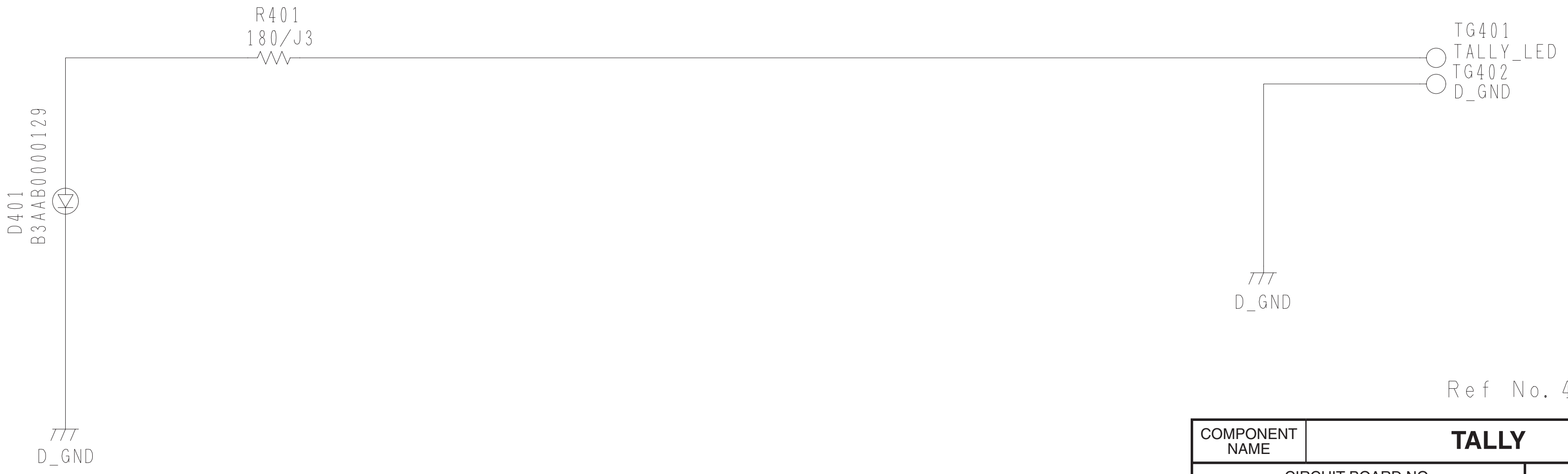
Ref No. 200 Series

COMPONENT NAME	MF FPC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E2A	KR0A0072 (1/1)	
	SCM025	


P2
FH12A-10S-0.5SH
VJS3801D010
K1MN10B00052
F_GND 1
F_GND 2
D_GND 3
ZOOM_VREF 4
ZOOM_AD 5
CAMSCAN2 6
CAMKEY4 7
D_GND 8
F_GND 9
F_GND 10
TO_CAMERA
D_GND
D1
MA142K-GTX
6 D_GND
5 ZOOM_VREF
4 ZOOM_AD
3 VTR_SCAN3
2 VTR_KEYIN5
1 D_GND
P1
52745-0690
K1MN06B00077
FROM_ZOOM_FPC

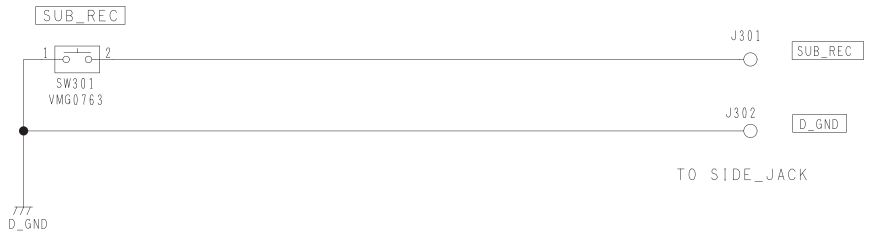
Ref No.000 Series

COMPONENT NAME	ZOOM_CON	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E3A	KR0A0114 (1/1)	
	SCM030	


R401
180/J3
TG401
TALLY_LED
TG402
D_GND
D401
B3AAB0000129
D_GND
D_GND

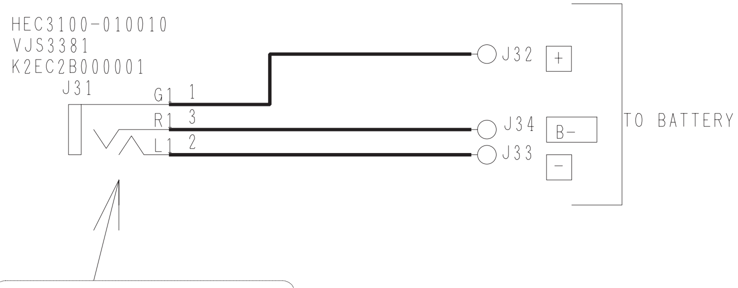
Ref No. 400 Series

COMPONENT NAME	TALLY	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001E4A	KR0A0074 (1/1)	
	SCM035	


SUB_REC
1
2
SW301
VMG0763
J301
SUB_REC
J302
D_GND
TO SIDE_JACK
D_GND

Ref No. 301 Series

COMPONENT NAME	SUB_REC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001G1A	KR0A0147 (1/1)	
	SCM035	


HEC3100-010010
VJS3381
K2EC2B000001
J31
G
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R
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L
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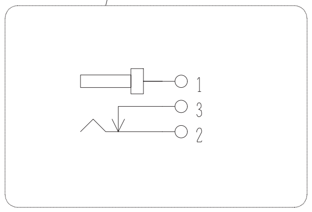
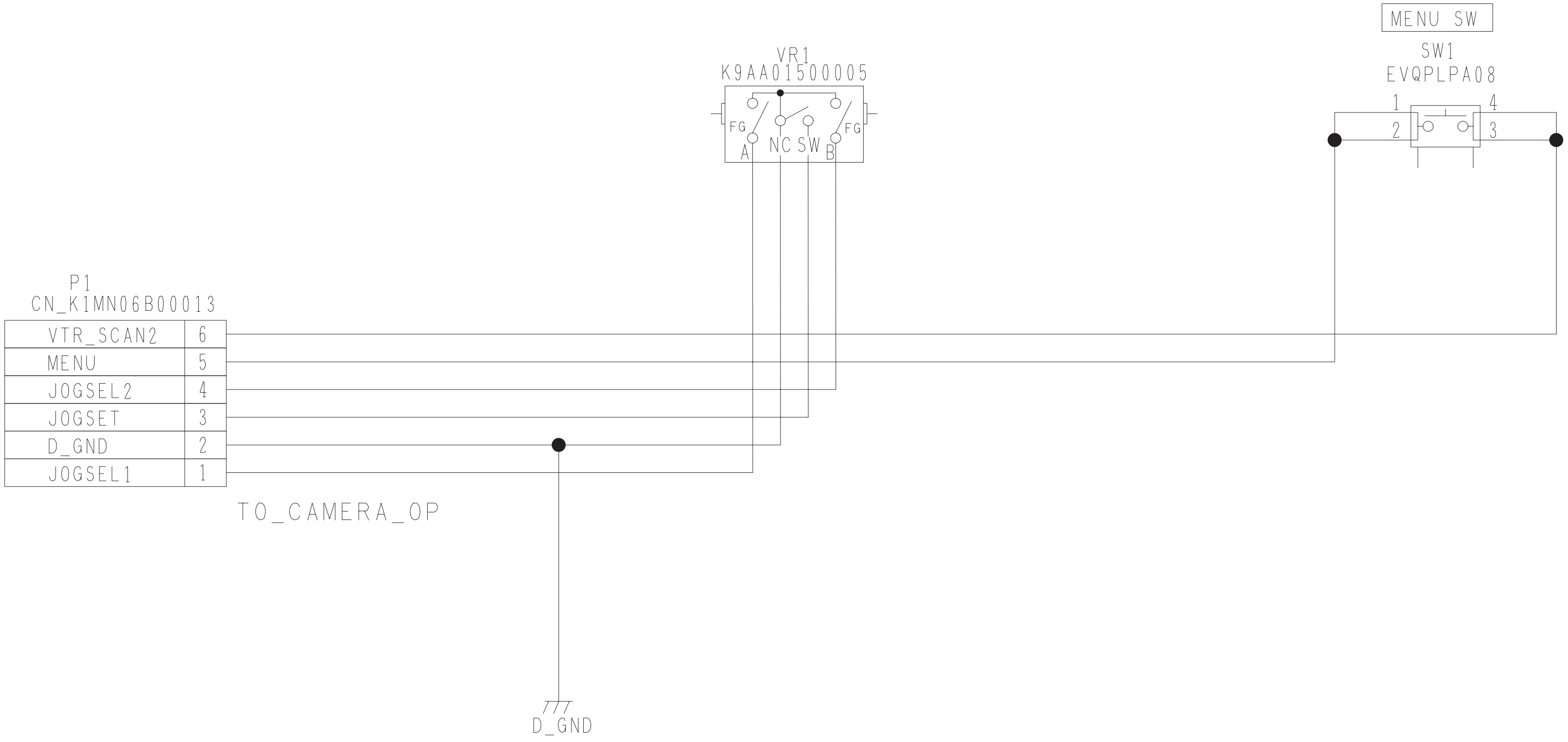
J32
+
J34
B-
J33
-
TO BATTERY



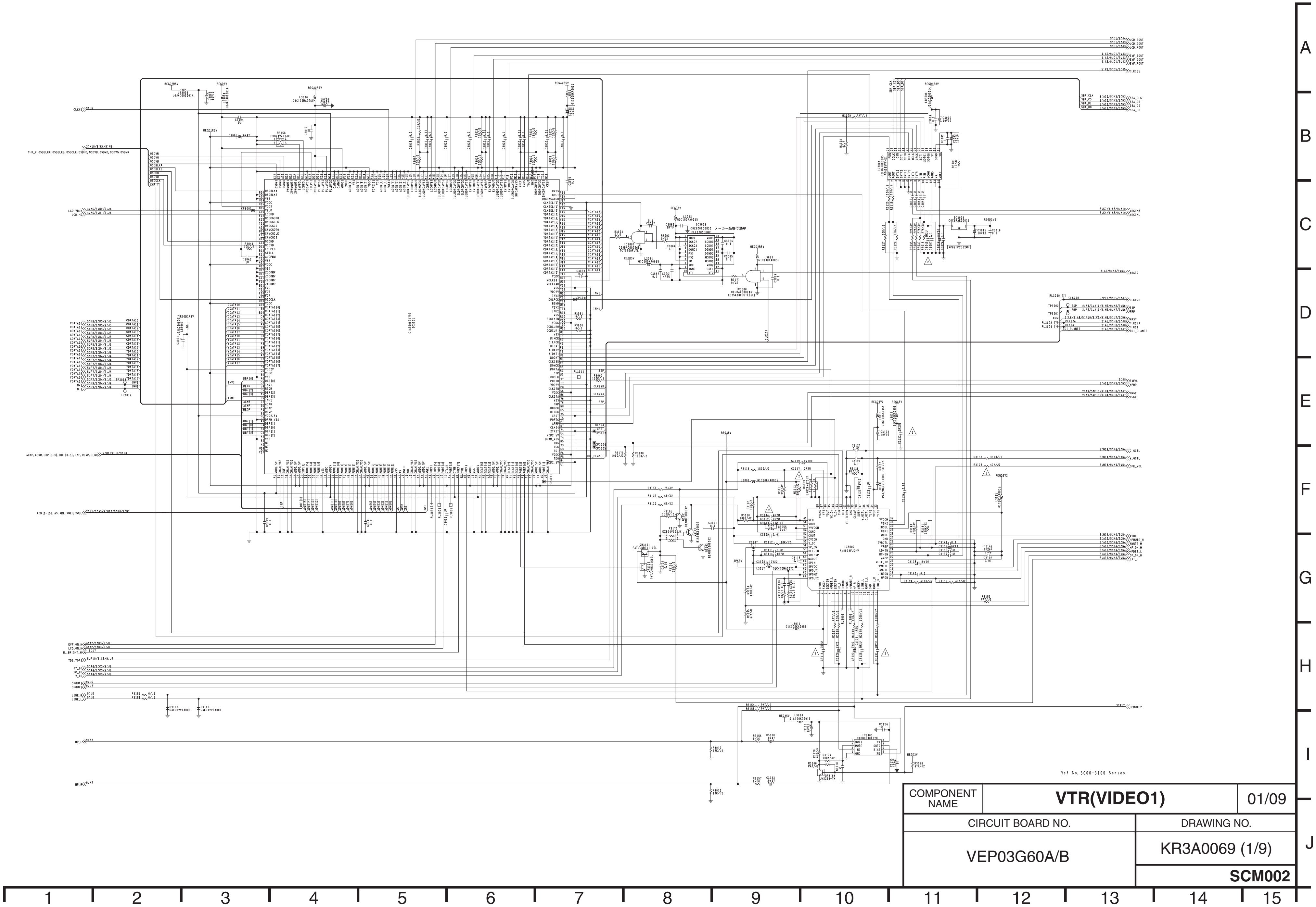
Ref No. 31-49 Series

COMPONENT NAME	DC_IN	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01957A	KR1A0062 (1/1)	
	SCM035	


MENU SW
SW1
EVQPLPA08
1
4
2
3
VR1
K9AA01500005
FG
FG
A
NC
SW
B
P1
CN_K1MN06B00013
VTR_SCAN2 6
MENU 5
JOGSEL2 4
JOGSET 3
D_GND 2
JOGSEL1 1
TO_CAMERA_OP
D_GND

Ref No.000 Series

COMPONENT NAME	**MENU FPC**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP001G2A	KR0A0148 (1/1)	
	SCM023	


A
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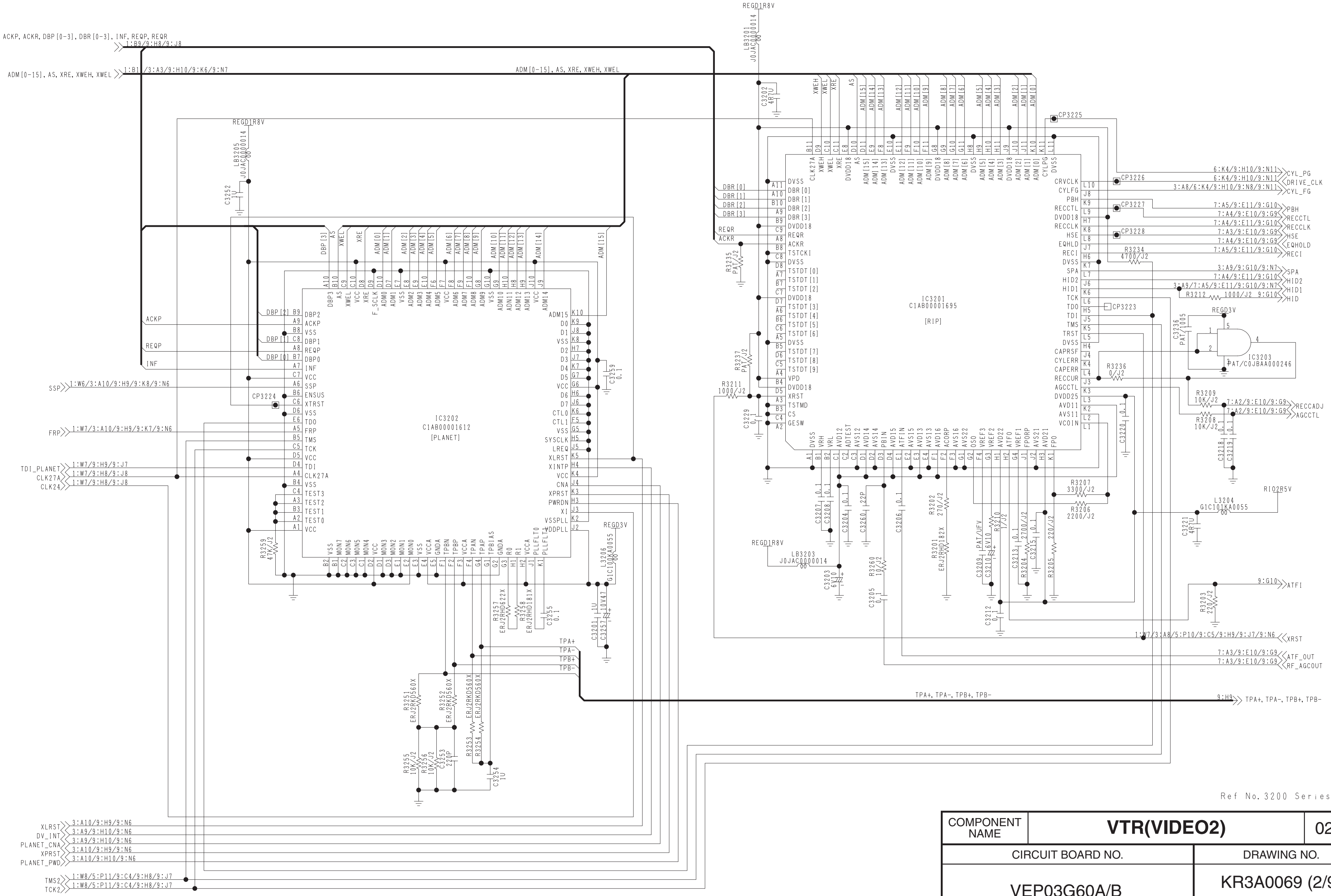
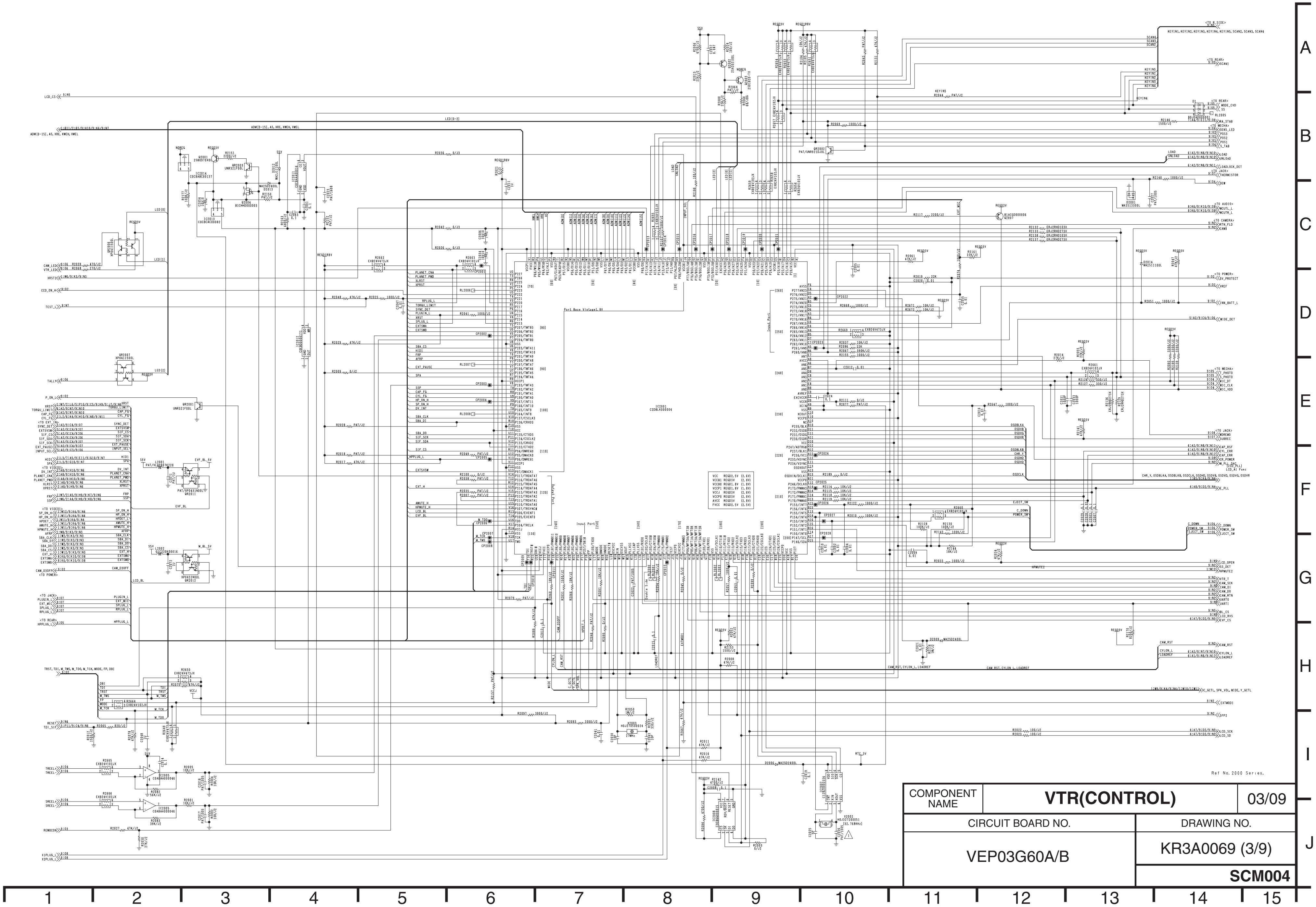
Ref No. 3000-3100 Series.

COMPONENT NAME	VTR(VIDEO1)	01/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (1/9)	
	SCM002	


IC3202
C1AB00001612
[PLANET]
IC3201
C1AB00001695
[RIP]
IC3203
PAT/C0JBAA000246
ACKP, ACKR, DBP[0-3], DBR[0-3], INF, REQP, REQR
ADM[0-15], AS, XRE, XWEH, XWEL
REGD1R8V
REGD3V
RIO2R5V
SSP
FRP
TDI_PLANET
CLK27A
CLK24
XLRST
DV_INT
PLANET_CNA
XPRST
PLANET_PWD
TMS2
TCK2
CYL_PG
DRIVE_CLK
CYL_FG
PBH
RECCTL
RECCLK
HSE
EQHOLD
RECI
SPA
HID2
HID1
HID
RECCADJ
AGCCTL
ATFI
XRST
ATF_OUT
RF_AGCOUT
TPA+, TPA-, TPB+, TPB-
LB3201
LB3205
LB3203
L3204
L3206
CP3224
CP3225
CP3226
CP3227
CP3228
CP3223

Ref No. 3200 Series.

COMPONENT NAME	VTR(VIDEO2)	02/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (2/9)	
	SCM003	



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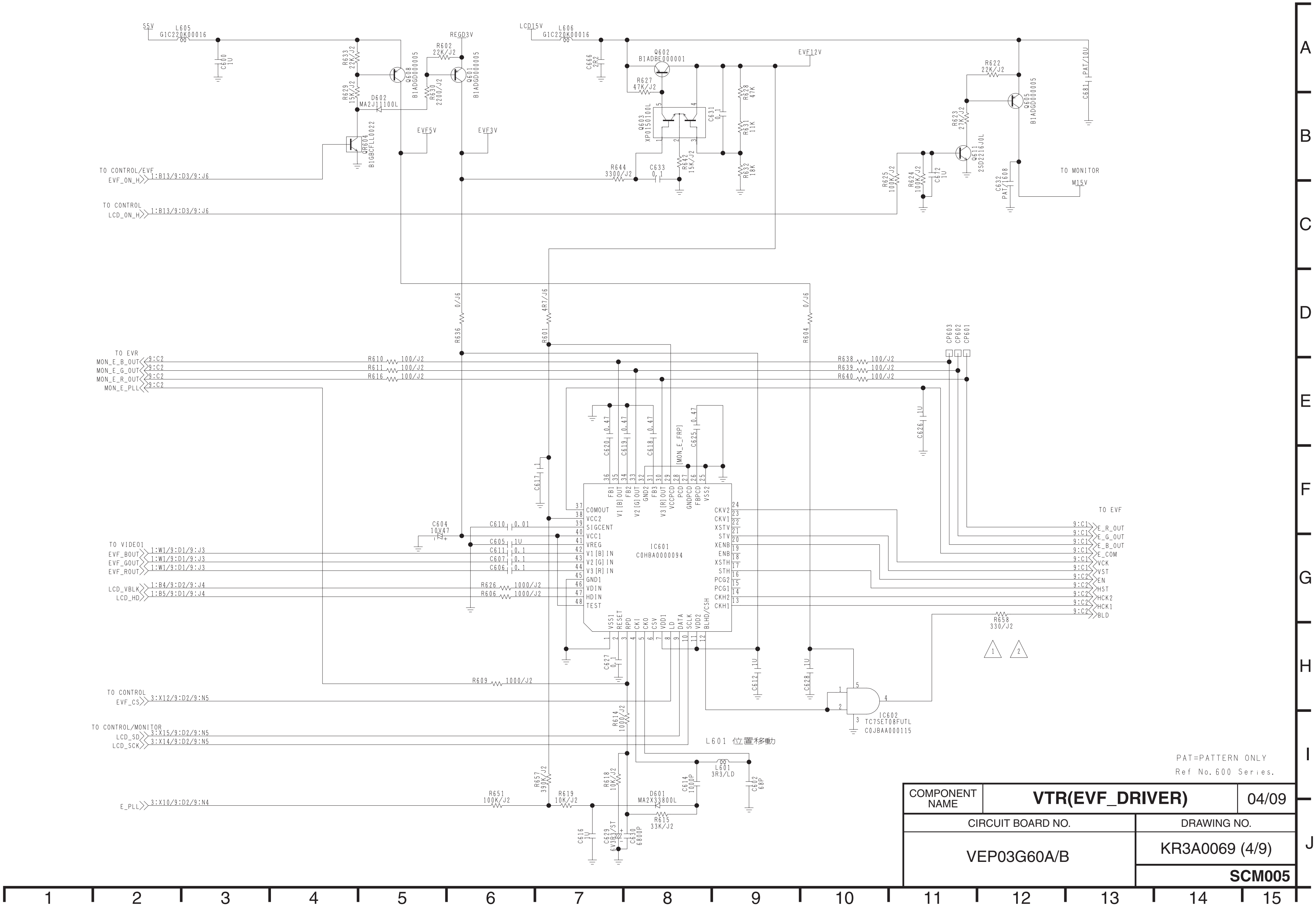
LCD_CS
XRSTC
CCD_ON_H
TEST_L
TALLY
P_ON_L
CAM_LED
VTR_LED
REMOCON
RESET
TREEL
SREEL
REG03V
REG01R8V
LED[0-2]
IC2001

Ref No. 2000 Series.

COMPONENT NAME	VTR(CONTROL)	03/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (3/9)	
	SCM004	


S5V
L605
G1C220K00016
C600
1U
R633
22K/J2
R629
15K/J2
Q608
B1ADGD000005
R602
22K/J2
REGD3V
Q601
B1ADGD000005
R630
2200/J2
D602
MA2J11100L
QR604
B1GBCFLL0022
EVF5V
EVF3V
TO CONTROL/EVF
EVF_ON_H
1:B13/9:D3/9:J6
TO CONTROL
LCD_ON_H
1:B13/9:D3/9:J6
LCD15V
L606
G1C220K00016
C666
2R2
Q602
B1ADBE000001
R627
47K/J2
Q603
XP0150100L
C631
0.1
R628
47K
R631
11K
R632
18K
R642
15K/J2
R644
3300/J2
C633
0.1
EVF12V
R622
22K/J2
Q605
B1ADGD000005
R623
27K/J2
Q611
2SD2216J0L
C681
PAT/10U
R625
100K/J2
R624
100K/J2
C612
1U
C632
PAT/1608
TO MONITOR
M15V
R636
0/J6
R601
4R7/J6
R604
0/J6
CP603
CP602
CP601
TO EVR
MON_E_B_OUT
MON_E_G_OUT
MON_E_R_OUT
MON_E_PLL
9:C2
R610 100/J2
R611 100/J2
R616 100/J2
R638 100/J2
R639 100/J2
R640 100/J2
C626 1U
C620 0.47
C619 0.47
C618 0.47
[MON_E_FRP]
C625 0.47
C617 1
C604
10V47
C610 0.01
C605 1U
C611 0.1
C607 0.1
C606 0.1
TO VIDEO1
EVF_BOUT
EVF_GOUT
EVF_ROUT
1:W1/9:D1/9:J3
LCD_VBLK
1:B4/9:D2/9:J4
LCD_HD
1:B5/9:D1/9:J4
R626 1000/J2
R606 1000/J2
IC601
C0HBA0000094
COMOUT
VCC2
SIGCENT
VCC1
VREG
V1[B]IN
V2[G]IN
V3[R]IN
GND1
VDIN
HDIN
TEST
FB1
V1[B]OUT
FB2
V2[G]OUT
GND2
FB3
V3[R]OUT
VCCPCD
PCD
GNDPCD
FBPCD
VSS2
CKV2
CKV1
XSTV
STV
XENB
ENB
XSTH
STH
PCG2
PCG1
CKH2
CKH1
VSS1
RESET
RPD
CKI
CKO
CSV
VDD1
LD
DATA
SCLK
VDD2
BLHD/CSH
TO EVF
9:C1
9:C2
E_R_OUT
E_G_OUT
E_B_OUT
E_COM
VCK
VST
EN
HST
HCK2
HCK1
BLD
R658
330/J2
C627
0.1
C612
1U
C628
1U
IC602
TC7SET08FUTL
C0JBAA000115
R609 1000/J2
TO CONTROL
EVF_CS
3:X12/9:D2/9:N5
R614
1000/J2
TO CONTROL/MONITOR
LCD_SD
3:X15/9:D2/9:N5
LCD_SCK
3:X14/9:D2/9:N5
L601 位置移動
L601
3R3/LD
C602
68P
C614
1000P
D601
MA2X33800L
R615
33K/J2
R618
10K/J2
R657
390K/J2
R651
100K/J2
R619
10K/J2
E_PLL
3:X10/9:D2/9:N4
C616
1U
C629
6V33/ST
C630
6800P
PAT=PATTERN ONLY
Ref No.600 Series.
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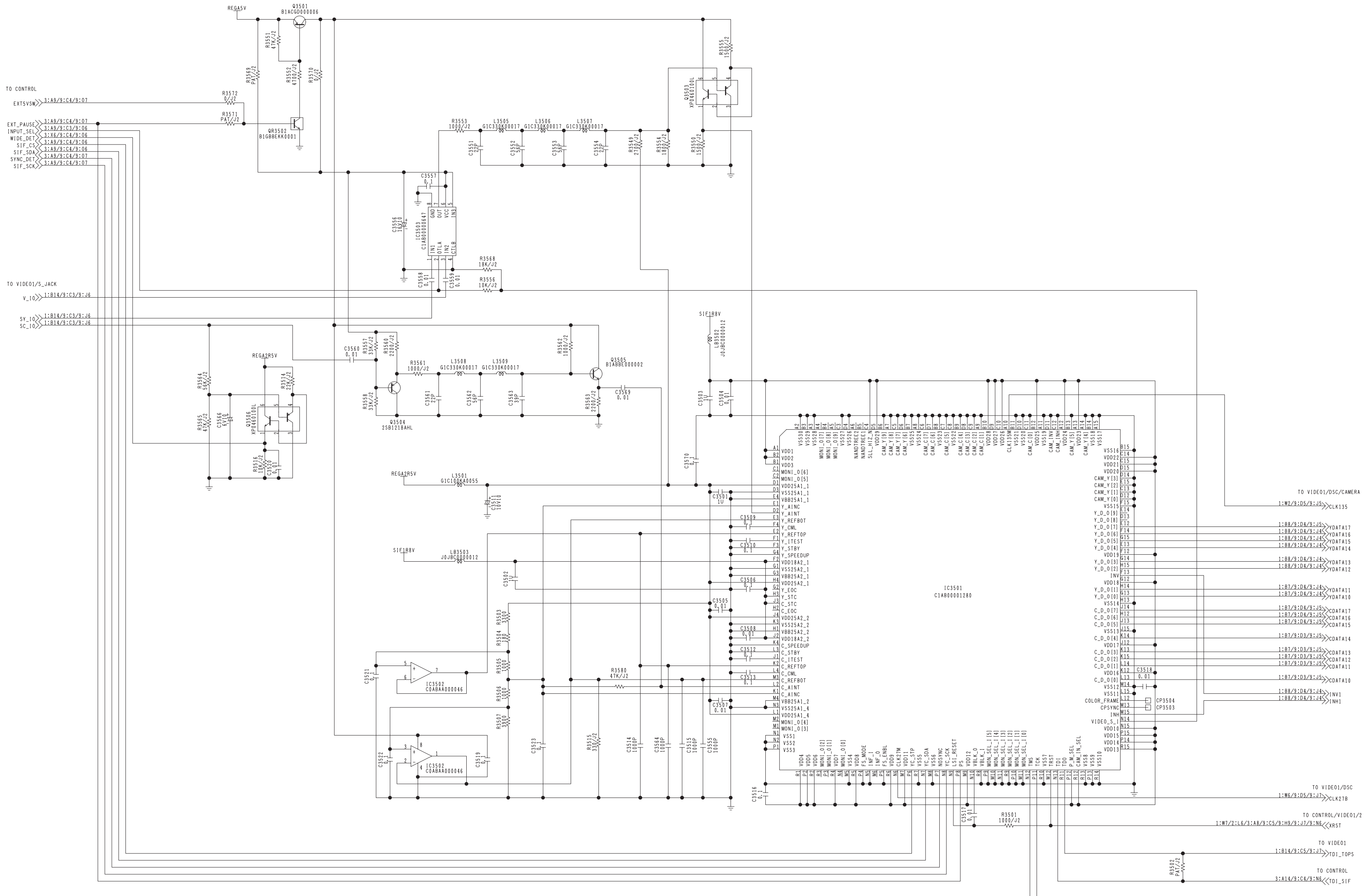
COMPONENT NAME	VTR(EVF_DRIVER)	04/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (4/9)	
	SCM005	


TO CONTROL
EXT5VSW 3:A9/9:C4/9:07
EXT_PAUSE 3:A9/9:C4/9:07
INPUT_SEL 3:A9/9:C3/9:06
WIDE_DET 3:X6/9:C4/9:06
SIF_CS 3:A9/9:C4/9:06
SIF_SDA 3:A9/9:C4/9:06
SYNC_DET 3:A9/9:C4/9:07
SIF_SCK 3:A9/9:C4/9:07
TO VIDEO1/S_JACK
V_IO 1:B14/9:C3/9:J6
SY_IO 1:B14/9:C3/9:J6
SC_IO 1:B14/9:C3/9:J6
REGA5V
Q3501 B1ACGD000006
R3551 47K/J2
R3552 4700/J2
R3569 PAT/J2
R3570 0/J2
R3572 0/J2
R3571 PAT/J2
QR3502 B1GBBEKK0001
R3553 1000/J2
L3505 G1C330K00017
L3506 G1C330K00017
L3507 G1C330K00017
R3555 150/J2
Q3503 XP0460100L
R3549
R3554
R3550
C3557 0.1
IC3505 C1AB00000643
C3556
C3558
C3559 0.01
R3568 18K/J2
R3556 18K/J2
REGA2R5V
R3564 56K/J2
R3514 22K/J2
R3565 47K/J2
Q3506 XP0460100L
C3566
R3516
C3520
C3560 0.01
R3557
R3560
R3561 1000/J2
L3508 G1C330K00017
L3509 G1C330K00017
R3558
Q3504 2SB1218AHL
C3561
C3562
C3563
R3562
Q3505 B1ABBC000002
R3563
C3569 0.01
SIF1R8V
LB3502 J0JBC0000012
C3503
C3504
C3570
REGA2R5V
L3501 G1C100KA0055
C3501 1U
C3501
SIF1R8V
LB3503 J0JBC0000012
C3502
C3509
C3510
C3506
C3505 0.01
C3508
C3512
C3513
C3507 0.01
R3503
R3504
R3505
R3506
R3507
C3521
IC3502 C0ABAA000046
R3580 47K/J2
IC3502 C0ABAA000046
C3522
C3519
C3523
R3515
C3514
C3524
C3515
C3516
C3511
C3517
C3518 0.01
CP3504
CP3503
IC3501 C1AB00001280
R3501 1000/J2
R3502 PAT/J2
TO VIDEO1/DSC/CAMERA
1:W2/9:D5/9:J5 CLK135
1:B8/9:D4/9:J5 YDATA17
1:B8/9:D4/9:J4 YDATA16
1:B8/9:D4/9:J4 YDATA15
1:B8/9:D4/9:J4 YDATA14
1:B8/9:D4/9:J4 YDATA13
1:B8/9:D4/9:J4 YDATA12
1:B7/9:D4/9:J4 YDATA11
1:B7/9:D4/9:J4 YDATA10
1:B7/9:D4/9:J5 CDATA17
1:B7/9:D4/9:J5 CDATA16
1:B7/9:D4/9:J5 CDATA15
1:B7/9:D3/9:J5 CDATA14
1:B7/9:D3/9:J5 CDATA13
1:B7/9:D3/9:J5 CDATA12
1:B7/9:D3/9:J5 CDATA11
1:B7/9:D3/9:J5 CDATA10
1:B8/9:D4/9:J4 INV1
1:B8/9:D4/9:J4 INH1
TO VIDEO1/DSC
1:W6/9:D5/9:J7 CLK27B
TO CONTROL/VIDEO1/2
1:W7/2:L6/3:A8/9:C5/9:H9/9:J7/9:N6 XRST
TO VIDEO1
1:B14/9:C5/9:J7 TDI_TOPS
TO CONTROL
3:A14/9:C4/9:N6 TDI_SIF
TO VIDEO1/VIDEO2
1:W8/2:A9/9:C4/9:H8/9:J7 TCK2
1:W8/2:A9/9:C4/9:H8/9:J7 TMS2
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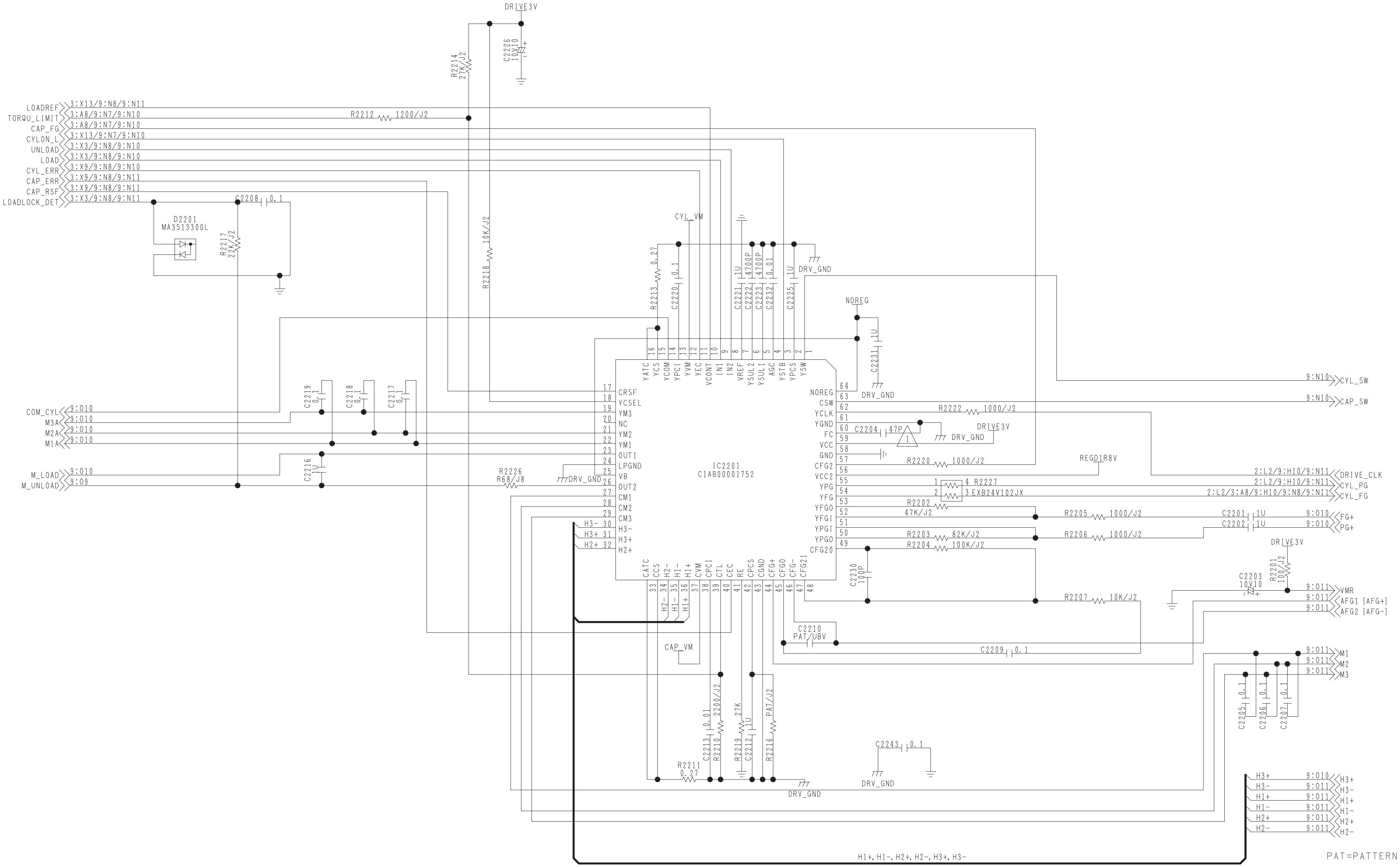
PAT=PATTERN ONLY

Ref No. 3500 Series.

Ref No.	-T, -P, -AN	-E, -MC
C3520	ECJ0WB1C103K	PAT
C3566	ECJ0WB1C103K	PAT
Q3506	XP0460100L	PAT
R3514	ERJ2GEJ223X	PAT
R3564	ERJ2GEJ563X	PAT
R3565	ERJ2GEJ473X	PAT

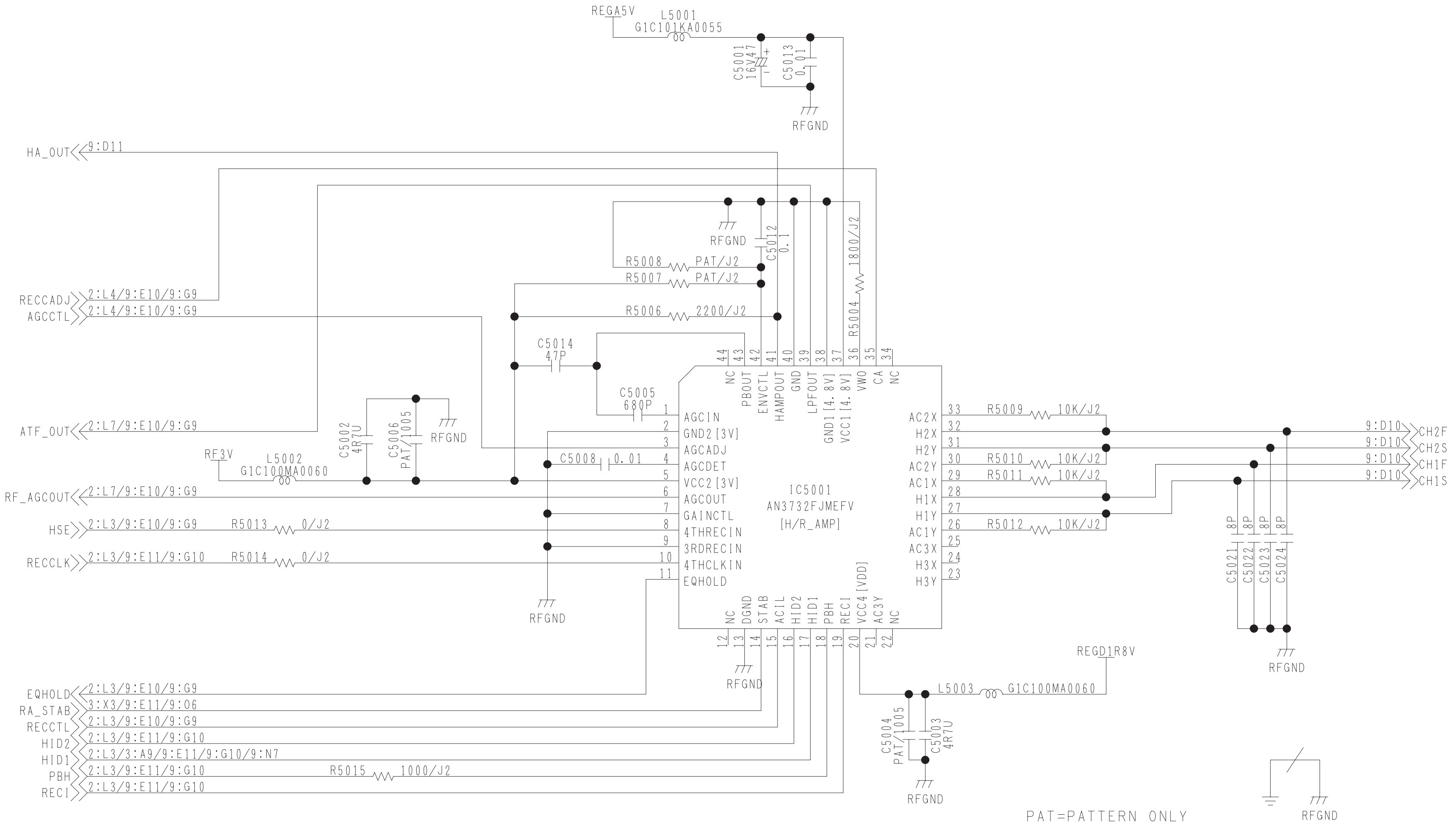
COMPONENT NAME	VTR(EX_INPUT)		05/09
CIRCUIT BOARD NO.		DRAWING NO.	
VEP03G60A/B		KR3A0069 (5/9)	
		SCM006	


DRIVE3V
C2226 10V10
R2214 27K/J2
LOADREF 3:X13/9:N8/9:N11
TORQU_LIMIT 3:A8/9:N7/9:N10
CAP_FG 3:A8/9:N7/9:N10
CYLON_L 3:X13/9:N7/9:N10
UNLOAD 3:X3/9:N8/9:N10
LOAD 3:X3/9:N8/9:N10
CYL_ERR 3:X9/9:N8/9:N10
CAP_ERR 3:X9/9:N8/9:N11
CAP_RSF 3:X9/9:N8/9:N11
LOADLOCK_DET 3:X3/9:N8/9:N11
R2212 1200/J2
C2208 0.1
D2201 MA3S133OOL
R2217 22K/J2
R2218 10K/J2
CYL_VM
R2213 0.27
C2220 0.1
C2221 1U
C2222 4700P
C2223 4700P
C2232 0.01
C2225 1U
DRV_GND
NOREG
C2231 1U
COM_CYL 9:O10
M3A 9:O10
M2A 9:O10
M1A 9:O10
C2219 0.1
C2218 0.1
C2217 0.1
C2216 1U
M_LOAD 9:O10
M_UNLOAD 9:O9
R2226 R68/J8
IC2201 C1AB00001752
YATC YCS YCOM YPCI YVM YEC VCONT IN1 IN2 VREF YSUL2 YSUL1 AGC YSTB YPCS YSW
CRSF YCSEL YM3 NC YM2 YM1 OUT1 LPGND VB OUT2 CM1 CM2 CM3 H3- H3+ H2+
NOREG CSW YCLK YGND FC VCC GND CFG2 VCC2 YPG YFG YFG0 YFGI YPGI YPG0 CFG20
CATC CCS H2- H1- H1+ CVM CPCI CTL CEC RE CPCS CGND CFG+ CFG0 CFG- CFG21
C2204 47P
R2222 1000/J2
R2220 1000/J2
REGD1R8V
R2227 EXB24V102JX
R2202 47K/J2
R2205 1000/J2
R2206 1000/J2
R2203 82K/J2
R2204 100K/J2
R2207 10K/J2
C2230 100P
C2201 1U
C2202 1U
9:N10 CYL_SW
9:N10 CAP_SW
2:L2/9:H10/9:N11 DRIVE_CLK
2:L2/9:H10/9:N11 CYL_PG
2:L2/3:A8/9:H10/9:N8/9:N11 CYL_FG
9:O10 FG+
9:O10 PG+
R2201 100/J2
C2203 10V10
9:O11 VMR
9:O11 AFG1 [AFG+]
9:O11 AFG2 [AFG-]
C2210 PAT/UBV
C2209 0.1
CAP_VM
9:O11 M1
9:O11 M2
9:O11 M3
C2205 0.1
C2206 0.1
C2207 0.1
C2213 0.01
R2210 2200/J2
R2219 27K
C2212 1U
R2216 PAT/J2
R2211 0.27
C2243 0.1
H3+ 9:O10 H3+
H3- 9:O11 H3-
H1+ 9:O11 H1+
H1- 9:O11 H1-
H2+ 9:O11 H2+
H2- 9:O11 H2-
H1+, H1-, H2+, H2-, H3+, H3-

PAT=PATTERN ONLY

Ref No. 2200 Series.

COMPONENT NAME	VTR(DRIVE)	06/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (6/9)	
	SCM007	


REGA5V
L5001
G1C101KA0055
C5001
16V47
C5013
0.01
RFGND
HA_OUT
9:D11
RFGND
C5012
0.1
R5008
PAT/J2
R5007
PAT/J2
R5006
2200/J2
R5004
1800/J2
RECCADJ
2:L4/9:E10/9:G9
AGCCTL
2:L4/9:E10/9:G9
C5014
47P
C5005
680P
ATF_OUT
2:L7/9:E10/9:G9
C5002
4R7U
C5006
PAT/1005
RFGND
RF3V
L5002
G1C100MA0060
C5008
0.01
RF_AGCOUT
2:L7/9:E10/9:G9
HSE
2:L3/9:E10/9:G9
R5013
0/J2
RECCLK
2:L3/9:E11/9:G10
R5014
0/J2
RFGND
1 AGCIN
2 GND2[3V]
3 AGCADJ
4 AGCDET
5 VCC2[3V]
6 AGCOUT
7 GAINCTL
8 4THRECIN
9 3RDRECIN
10 4THCLKIN
11 EQHOLD
12 NC
13 DGND
14 STAB
15 ACIL
16 HID2
17 HID1
18 PBH
19 RECI
20 VCC4[VDD]
21 AC3Y
22 NC
23 H3Y
24 H3X
25 AC3X
26 AC1Y
27 H1Y
28 H1X
29 AC1X
30 AC2Y
31 H2Y
32 H2X
33 AC2X
34 NC
35 CA
36 VWO
37 VCC1[4.8V]
38 GND1[4.8V]
39 LPFOUT
40 GND
41 HAMPOUT
42 ENVCTL
43 PBOUT
44 NC
IC5001
AN3732FJMEFV
[H/R_AMP]
R5009
10K/J2
R5010
10K/J2
R5011
10K/J2
R5012
10K/J2
9:D10 CH2F
9:D10 CH2S
9:D10 CH1F
9:D10 CH1S
8P
8P
8P
8P
C5021
C5022
C5023
C5024
RFGND
RFGND
REGD1R8V
L5003
G1C100MA0060
C5004
PAT/1005
C5003
4R7U
RFGND
EQHOLD
2:L3/9:E10/9:G9
RA_STAB
3:X3/9:E11/9:O6
RECCTL
2:L3/9:E10/9:G9
HID2
2:L3/9:E11/9:G10
HID1
2:L3/3:A9/9:E11/9:G10/9:N7
PBH
2:L3/9:E11/9:G10
R5015
1000/J2
RECI
2:L3/9:E11/9:G10
RFGND
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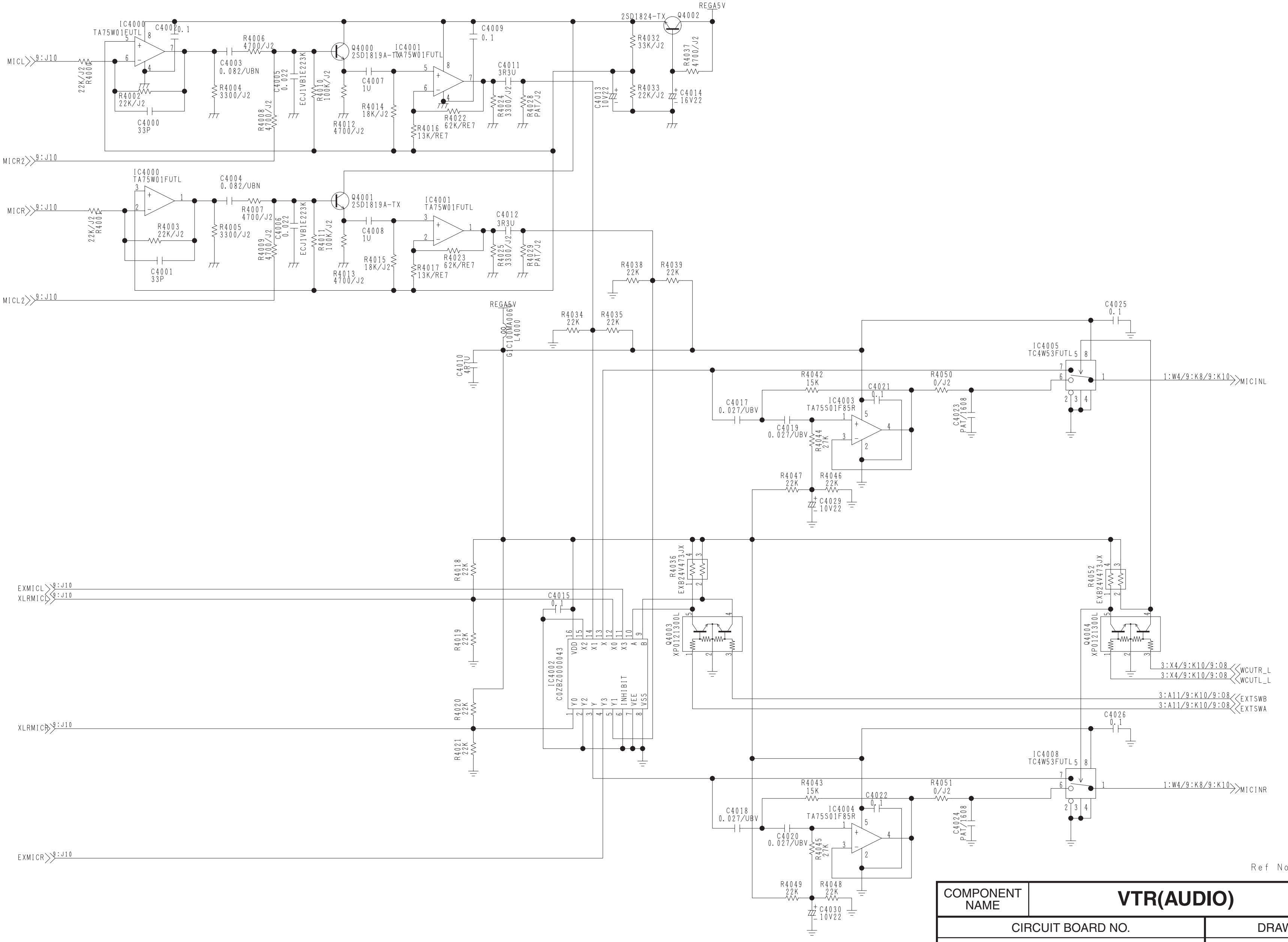
PAT=PATTERN ONLY

Ref No.5000 Series.

COMPONENT NAME	VTR(HR_AMP)	07/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (7/9)	
	SCM008	


MICL
MICR2
MICR
MICL2
EXMICL
XLRMICL
XLRMICR
EXMICR
9:J10
IC4000
TA75W01FUTL
IC4001
TA75W01FUTL
Q4000
2SD1819A-TX
Q4001
2SD1819A-TX
Q4002
2SD1824-TX
REGA5V
R4000 22K/J2
R4001 22K/J2
R4002 22K/J2
R4003 22K/J2
C4000 33P
C4001 33P
C4002 0.1
C4003 0.082/UBN
C4004 0.082/UBN
R4004 3300/J2
R4005 3300/J2
R4006 4700/J2
R4007 4700/J2
R4008 4700/J2
R4009 4700/J2
C4005 0.022
C4006 0.022
ECJ1VB1E223K
R4010 100K/J2
R4011 100K/J2
R4012 4700/J2
R4013 4700/J2
C4007 1U
C4008 1U
R4014 18K/J2
R4015 18K/J2
R4016 13K/RE7
R4017 13K/RE7
R4022 62K/RE7
R4023 62K/RE7
C4009 0.1
C4011 3R3U
C4012 3R3U
R4024 3300/J2
R4025 3300/J2
R4028 PAT/J2
R4029 PAT/J2
C4013 10V22
R4032 33K/J2
R4033 22K/J2
R4037 4700/J2
C4014 16V22
R4038 22K
R4039 22K
R4034 22K
R4035 22K
C4010 4R7U
L4000 G1C100MA0067
C4025 0.1
IC4005 TC4W53FUTL
R4042 15K
R4050 0/J2
C4017 0.027/UBV
C4019 0.027/UBV
C4021 0.1
IC4003 TA75S01F85R
C4023 PAT/1608
R4044 27K
R4047 22K
R4046 22K
C4029 10V22
1:W4/9:K8/9:K10
MICINL
R4018 22K
R4019 22K
R4020 22K
R4021 22K
C4015 0.1
IC4002 COZBZ0000043
VDD X2 X1 X X0 X3 A B
Y0 Y2 Y Y3 Y1 INHIBIT VEE VSS
R4036 EXB24V473JX
Q4003 XP0121300L
R4052 EXB24V473JX
Q4004 XP0121300L
3:X4/9:K10/9:08
WCUTR_L
WCUTL_L
3:A11/9:K10/9:08
EXTSWB
EXTSWA
C4026 0.1
IC4008 TC4W53FUTL
R4043 15K
R4051 0/J2
C4018 0.027/UBV
C4020 0.027/UBV
C4022 0.1
IC4004 TA75S01F85R
C4024 PAT/1608
R4045 27K
R4049 22K
R4048 22K
C4030 10V22
MICINR
A
B
C
D
E
F
G
H
I
J
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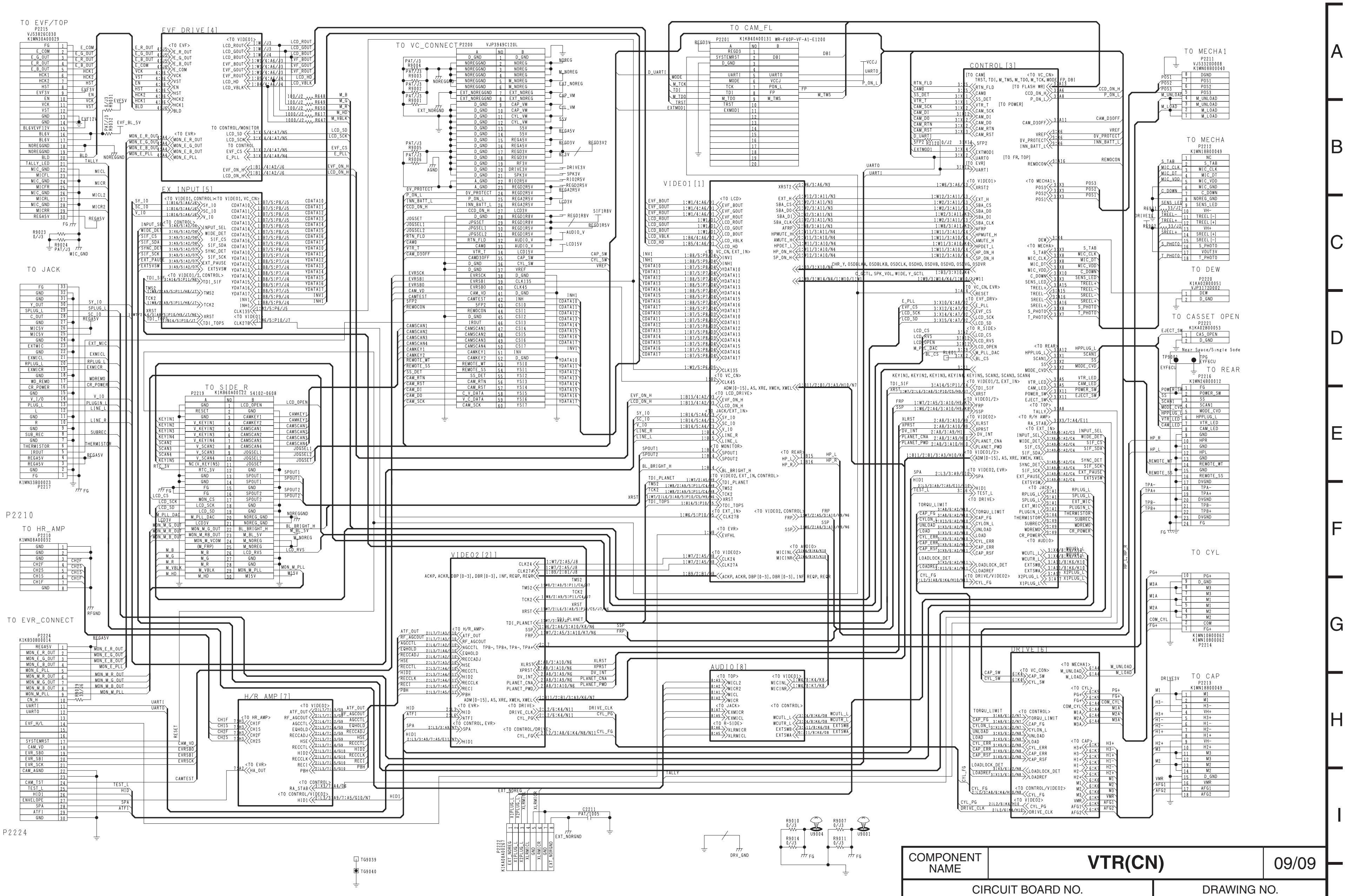
Ref No. 4000 Series.

COMPONENT NAME	VTR(AUDIO)	08/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP03G60A/B	KR3A0069 (8/9)	
	SCM009	


TO EVF/TOP
P2215
EVF DRIVE [4]
TO VC_CONNECT P2200
TO CAM_FL
P2201
CONTROL [3]
TO MECHA1
P2211
TO MECHA
P2212
EX INPUT [5]
TO JACK
P2211
VIDEO1 [1]
TO DEW
P2220
TO CASSET OPEN
P2221
TO SIDE_R
P2219
TO REAR
P2216
P2210
TO HR_AMP
TO CYL
P2214
TO EVR_CONNECT
P2224
VIDEO2 [2]
DRIVE [6]
AUDIO [8]
H/R AMP [7]
TO CAP
P2213
P2222
TG9039
TG9040
DRV_GND
EXT_NORGND
1
2
3
4
5
6
7
8
9
10
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12
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14
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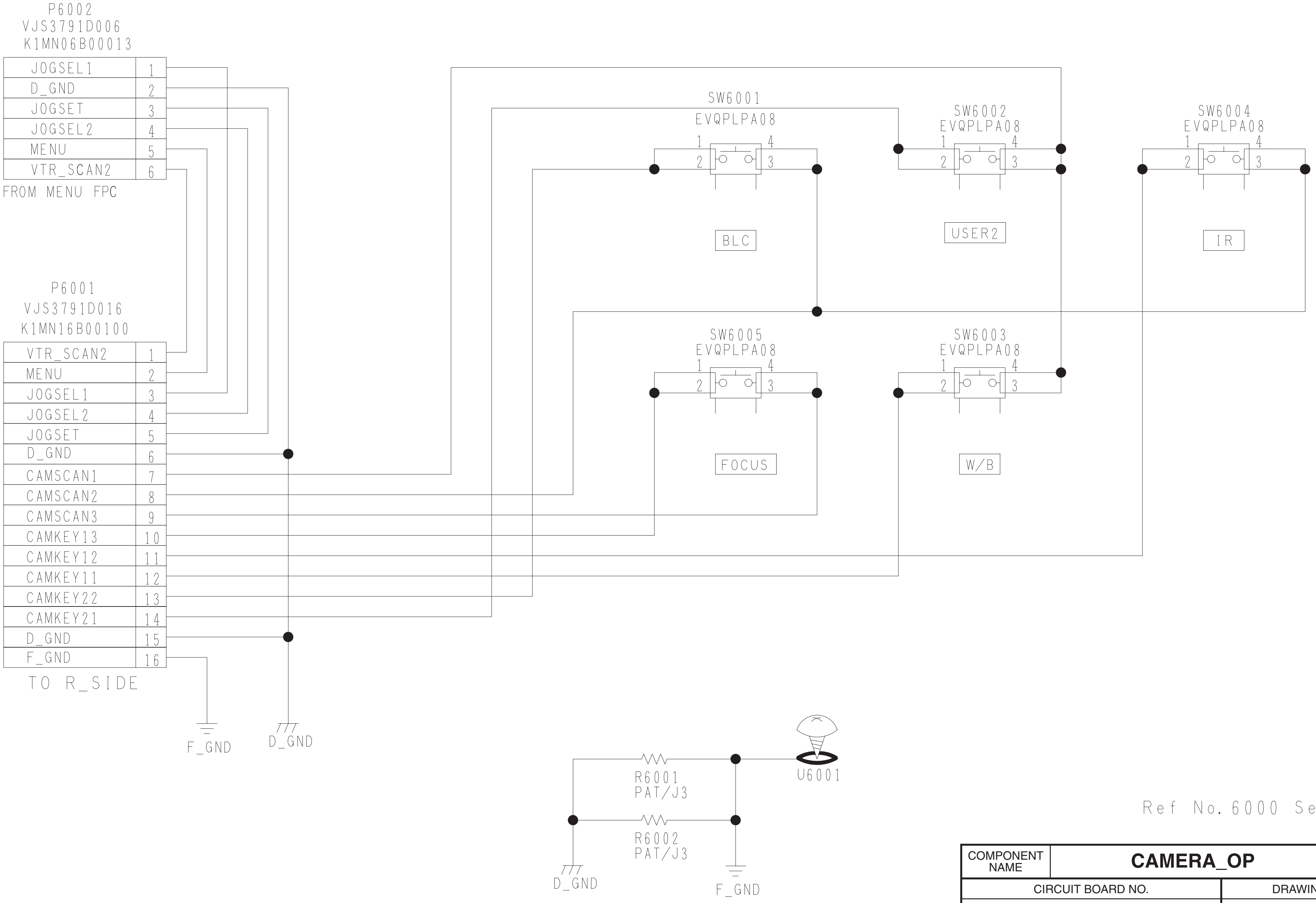
A
B
C
D
E
F
G
H
I
J

COMPONENT NAME: **VTR(CN)** — 09/09

CIRCUIT BOARD NO.: VEP03G60A/B

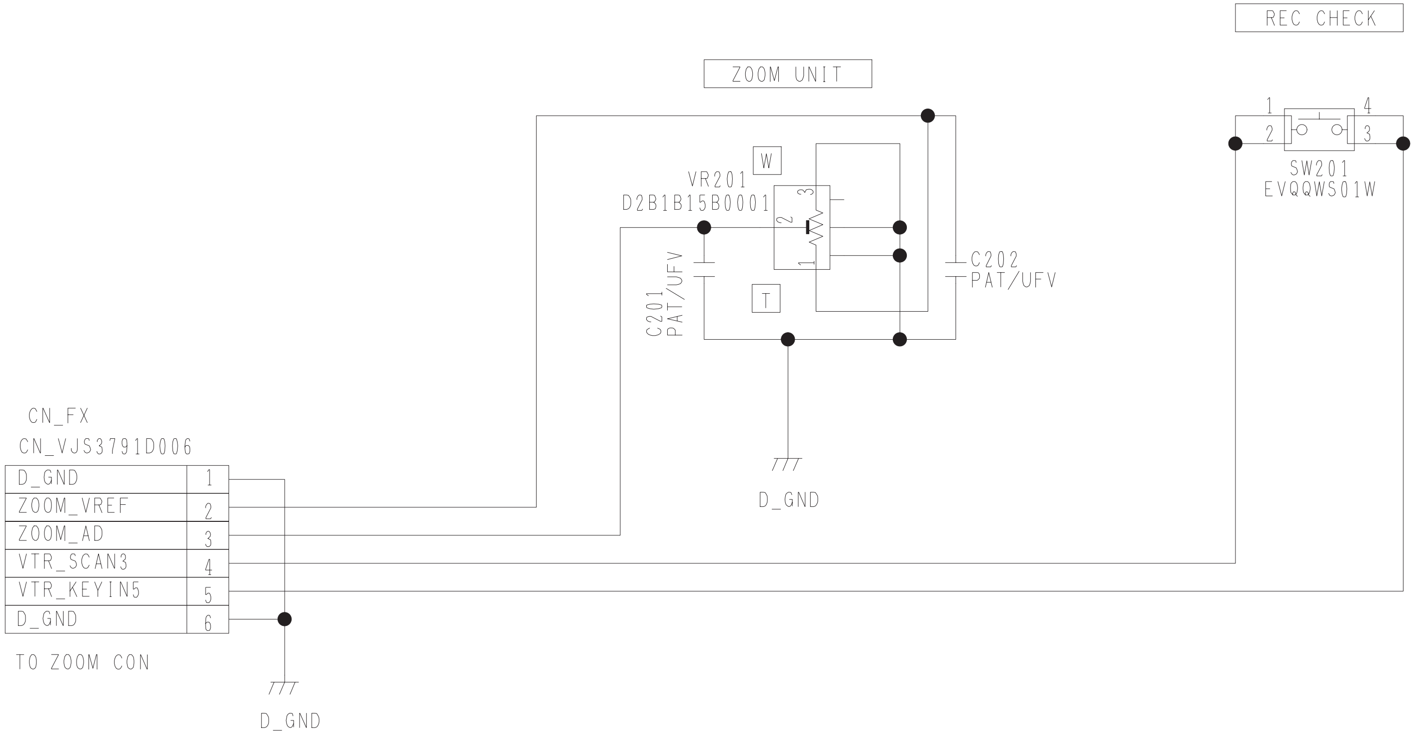
DRAWING NO.: KR3A0069 (9/9)

SCM010


P6002
VJS3791D006
K1MN06B00013
JOGSEL1 1
D_GND 2
JOGSET 3
JOGSEL2 4
MENU 5
VTR_SCAN2 6
FROM MENU FPC
P6001
VJS3791D016
K1MN16B00100
VTR_SCAN2 1
MENU 2
JOGSEL1 3
JOGSEL2 4
JOGSET 5
D_GND 6
CAMSCAN1 7
CAMSCAN2 8
CAMSCAN3 9
CAMKEY13 10
CAMKEY12 11
CAMKEY11 12
CAMKEY22 13
CAMKEY21 14
D_GND 15
F_GND 16
TO R_SIDE
F_GND
D_GND
SW6001
EVQPLPA08
BLC
SW6002
EVQPLPA08
USER2
SW6004
EVQPLPA08
IR
SW6005
EVQPLPA08
FOCUS
SW6003
EVQPLPA08
W/B
R6001
PAT/J3
R6002
PAT/J3
U6001
D_GND
F_GND

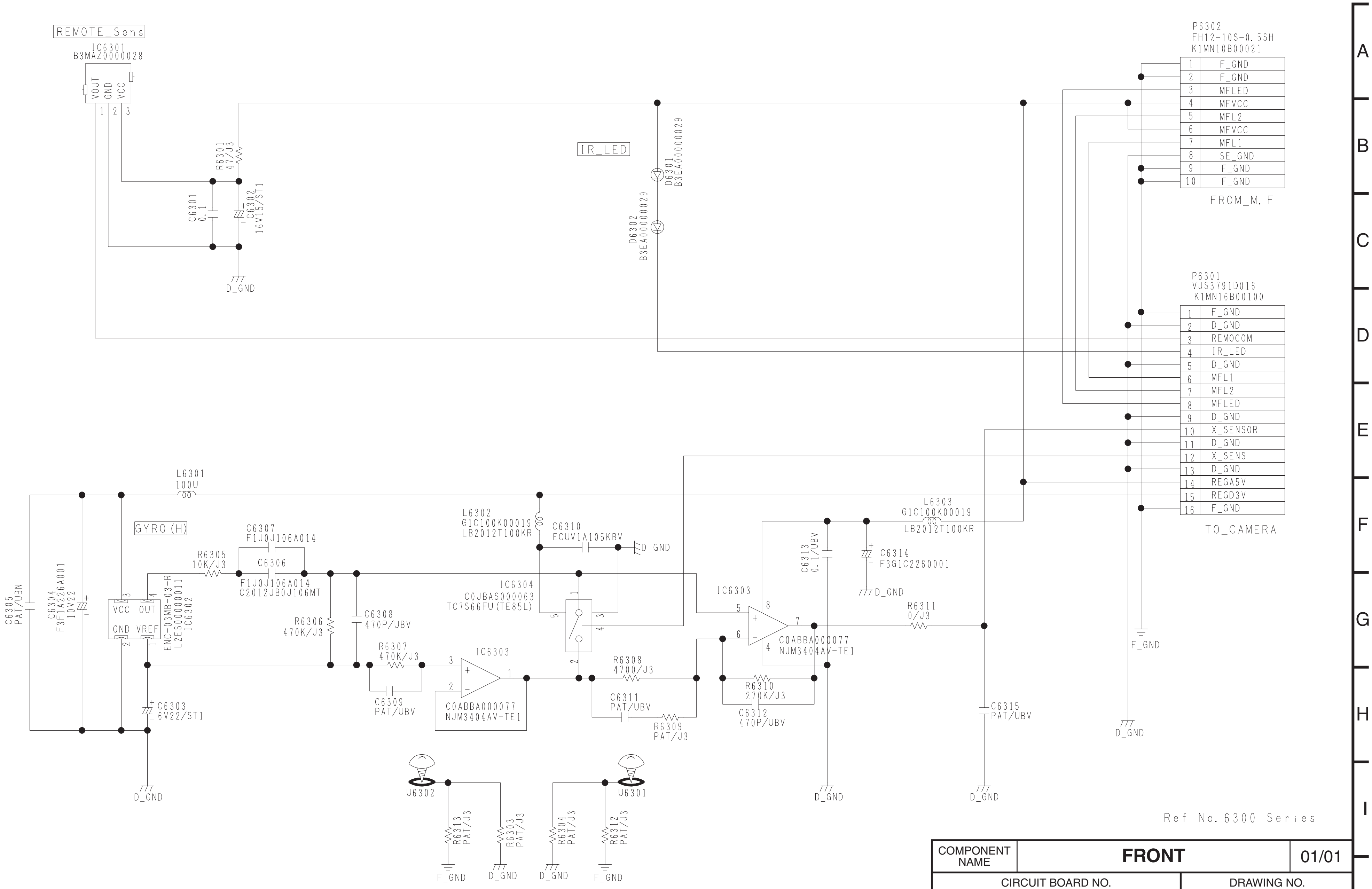
Ref No.6000 Series

COMPONENT NAME	**CAMERA_OP**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP06F64A		KR6A0046 (1/1)
		SCM022


REC CHECK
ZOOM UNIT
1
4
2
3
SW201
EVQQWS01W
W
VR201
D2B1B15B0001
3
2
1
T
C202
PAT/UFV
C201
PAT/UFV
D_GND
CN_FX
CN_VJS3791D006
D_GND 1
ZOOM_VREF 2
ZOOM_AD 3
VTR_SCAN3 4
VTR_KEYIN5 5
D_GND 6
TO ZOOM CON
D_GND

Ref No. 201-250 Series.

COMPONENT NAME	**ZOOM FPC**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F66A	KR6A0090 (1/1)	
	SCM029	


REMOTE_Sens
IC6301
B3MAZ0000028
VOUT
GND
VCC
1 2 3
R6301
47/J3
C6301
0.1
C6302
16V15/ST1
D_GND
IR_LED
D6301
B3EA0000029
D6302
B3EA0000029
P6302
FH12-10S-0.5SH
K1MN10B00021
1 F_GND
2 F_GND
3 MFLED
4 MFVCC
5 MFL2
6 MFVCC
7 MFL1
8 SE_GND
9 F_GND
10 F_GND
FROM_M.F
P6301
VJS3791D016
K1MN16B00100
1 F_GND
2 D_GND
3 REMOCOM
4 IR_LED
5 D_GND
6 MFL1
7 MFL2
8 MFLED
9 D_GND
10 X_SENSOR
11 D_GND
12 X_SENS
13 D_GND
14 REGA5V
15 REGD3V
16 F_GND
TO_CAMERA
F_GND
D_GND
L6301
100U
GYRO(H)
C6305
PAT/UBN
C6304
F3F1A226A001
10V22
VCC
OUT
GND
VREF
ENC-03MB-03-R
L2ES0000011
IC6302
C6303
6V22/ST1
D_GND
R6305
10K/J3
C6307
F1J0J106A014
C6306
F1J0J106A014
C2012JB0J106MT
R6306
470K/J3
C6308
470P/UBV
R6307
470K/J3
C6309
PAT/UBV
IC6303
C0ABBA000077
NJM3404AV-TE1
L6302
G1C100K00019
LB2012T100KR
C6310
ECUV1A105KBV
D_GND
IC6304
C0JBAS000063
TC7S66FU(TE85L)
R6308
4700/J3
C6311
PAT/UBV
R6309
PAT/J3
IC6303
C0ABBA000077
NJM3404AV-TE1
R6310
270K/J3
C6312
470P/UBV
C6313
0.1/UBV
C6314
F3G1C2260001
D_GND
L6303
G1C100K00019
LB2012T100KR
R6311
0/J3
C6315
PAT/UBV
D_GND
D_GND
U6302
U6301
R6313
PAT/J3
R6303
PAT/J3
R6304
PAT/J3
R6312
PAT/J3
F_GND
D_GND
D_GND
F_GND
D_GND
Ref No.6300 Series
A
B
C
D
E
F
G
H
I
J
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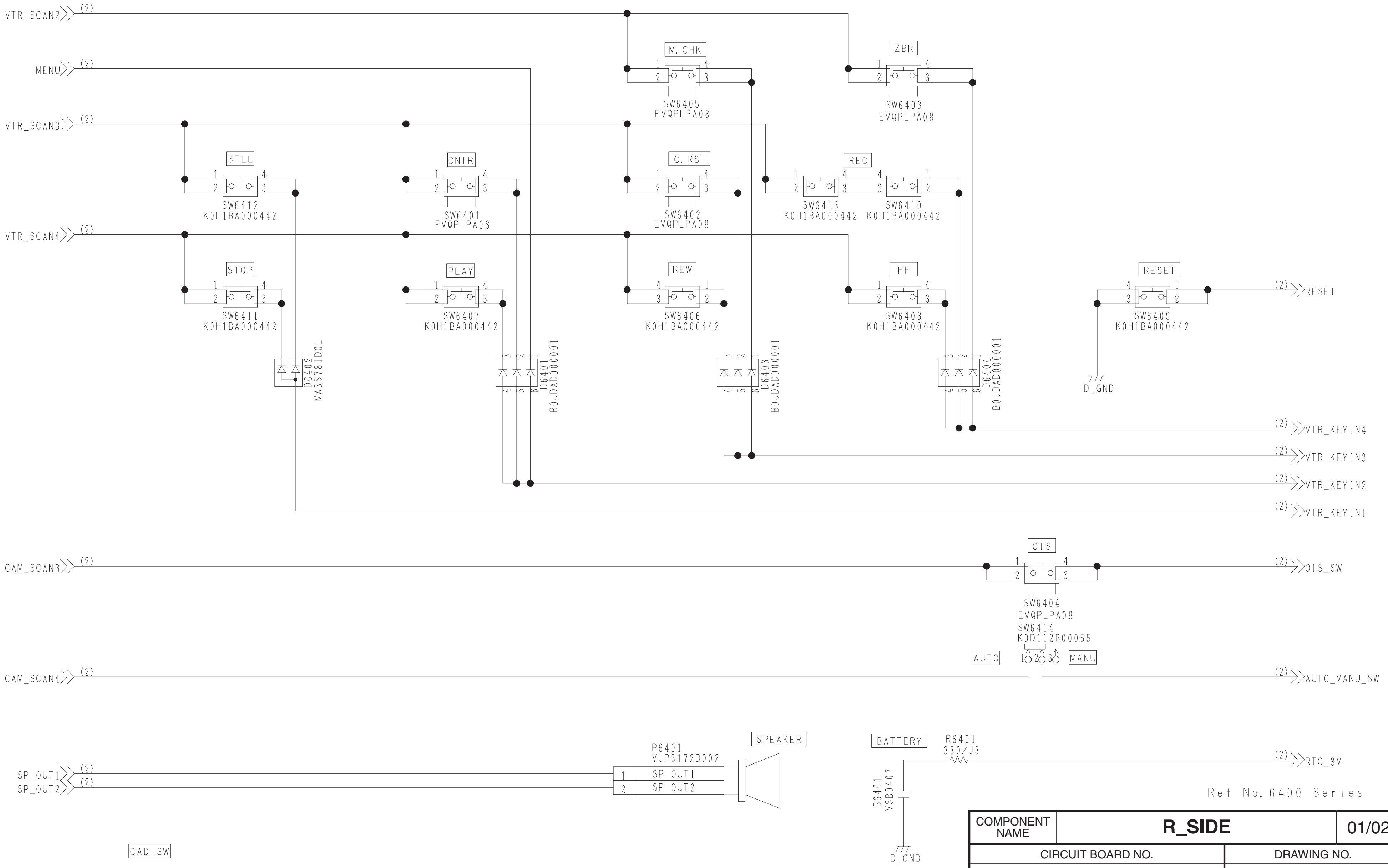
COMPONENT NAME	**FRONT**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F67A	KR6A0049 (1/1)	
	SCM024	


VTR_SCAN2 (2)
MENU (2)
VTR_SCAN3 (2)
VTR_SCAN4 (2)
M. CHK
SW6405
EVQPLPA08
ZBR
SW6403
EVQPLPA08
STLL
SW6412
K0H1BA000442
CNTR
SW6401
EVQPLPA08
C. RST
SW6402
EVQPLPA08
REC
SW6413
K0H1BA000442
SW6410
K0H1BA000442
STOP
SW6411
K0H1BA000442
PLAY
SW6407
K0H1BA000442
REW
SW6406
K0H1BA000442
FF
SW6408
K0H1BA000442
RESET
SW6409
K0H1BA000442
(2) RESET
D_GND
D6402
MA3S781D0L
D6401
B0JDAD000001
D6403
B0JDAD000001
D6404
B0JDAD000001
(2) VTR_KEYIN4
(2) VTR_KEYIN3
(2) VTR_KEYIN2
(2) VTR_KEYIN1
CAM_SCAN3 (2)
OIS
SW6404
EVQPLPA08
(2) OIS_SW
SW6414
K0D112B00055
AUTO
MANU
CAM_SCAN4 (2)
(2) AUTO_MANU_SW
SPEAKER
P6401
VJP3172D002
SP_OUT1 (2)
SP_OUT2 (2)
SP OUT1
SP OUT2
BATTERY
R6401
330/J3
(2) RTC_3V
B6401
VSB0407
D_GND
CAD_SW
A
B
C
D
E
F
G
H
I
J
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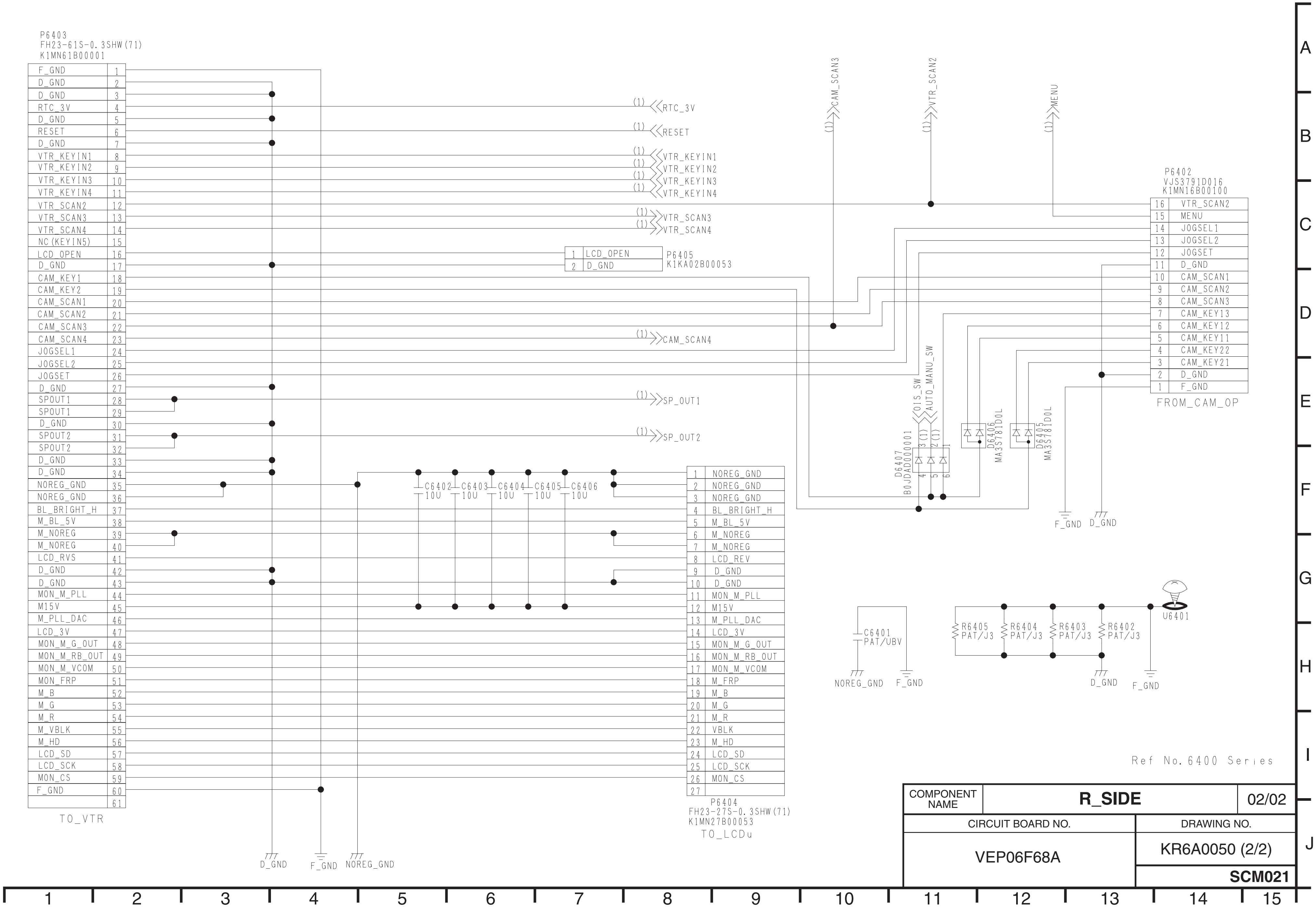
Ref No. 6400 Series

COMPONENT NAME	R_SIDE	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F68A	KR6A0050 (1/2)	
	SCM020	


P6403
FH23-61S-0.3SHW(71)
K1MN61B00001
1 F_GND
2 D_GND
3 D_GND
4 RTC_3V
5 D_GND
6 RESET
7 D_GND
8 VTR_KEYIN1
9 VTR_KEYIN2
10 VTR_KEYIN3
11 VTR_KEYIN4
12 VTR_SCAN2
13 VTR_SCAN3
14 VTR_SCAN4
15 NC(KEYIN5)
16 LCD_OPEN
17 D_GND
18 CAM_KEY1
19 CAM_KEY2
20 CAM_SCAN1
21 CAM_SCAN2
22 CAM_SCAN3
23 CAM_SCAN4
24 JOGSEL1
25 JOGSEL2
26 JOGSET
27 D_GND
28 SPOUT1
29 SPOUT1
30 D_GND
31 SPOUT2
32 SPOUT2
33 D_GND
34 D_GND
35 NOREG_GND
36 NOREG_GND
37 BL_BRIGHT_H
38 M_BL_5V
39 M_NOREG
40 M_NOREG
41 LCD_RVS
42 D_GND
43 D_GND
44 MON_M_PLL
45 M15V
46 M_PLL_DAC
47 LCD_3V
48 MON_M_G_OUT
49 MON_M_RB_OUT
50 MON_M_VCOM
51 MON_FRP
52 M_B
53 M_G
54 M_R
55 M_VBLK
56 M_HD
57 LCD_SD
58 LCD_SCK
59 MON_CS
60 F_GND
61
TO_VTR
D_GND
F_GND
NOREG_GND
(1) RTC_3V
(1) RESET
(1) VTR_KEYIN1
(1) VTR_KEYIN2
(1) VTR_KEYIN3
(1) VTR_KEYIN4
(1) VTR_SCAN3
(1) VTR_SCAN4
(1) CAM_SCAN4
(1) SP_OUT1
(1) SP_OUT2
(1) CAM_SCAN3
(1) VTR_SCAN2
(1) MENU
P6405
K1KA02B00053
1 LCD_OPEN
2 D_GND
C6402 10U
C6403 10U
C6404 10U
C6405 10U
C6406 10U
P6404
FH23-27S-0.3SHW(71)
K1MN27B00053
1 NOREG_GND
2 NOREG_GND
3 NOREG_GND
4 BL_BRIGHT_H
5 M_BL_5V
6 M_NOREG
7 M_NOREG
8 LCD_REV
9 D_GND
10 D_GND
11 MON_M_PLL
12 M15V
13 M_PLL_DAC
14 LCD_3V
15 MON_M_G_OUT
16 MON_M_RB_OUT
17 MON_M_VCOM
18 M_FRP
19 M_B
20 M_G
21 M_R
22 VBLK
23 M_HD
24 LCD_SD
25 LCD_SCK
26 MON_CS
27
TO_LCDu
P6402
VJS3791D016
K1MN16B00100
16 VTR_SCAN2
15 MENU
14 JOGSEL1
13 JOGSEL2
12 JOGSET
11 D_GND
10 CAM_SCAN1
9 CAM_SCAN2
8 CAM_SCAN3
7 CAM_KEY13
6 CAM_KEY12
5 CAM_KEY11
4 CAM_KEY22
3 CAM_KEY21
2 D_GND
1 F_GND
FROM_CAM_OP
(1) OIS_SW
(1) AUTO_MANU_SW
D6407
B0JDAD000001
D6406
MA3S781D0L
D6405
MA3S781D0L
F_GND
D_GND
C6401
PAT/UBV
NOREG_GND
F_GND
R6405 PAT/J3
R6404 PAT/J3
R6403 PAT/J3
R6402 PAT/J3
U6401
D_GND
F_GND
A
B
C
D
E
F
G
H
I
J
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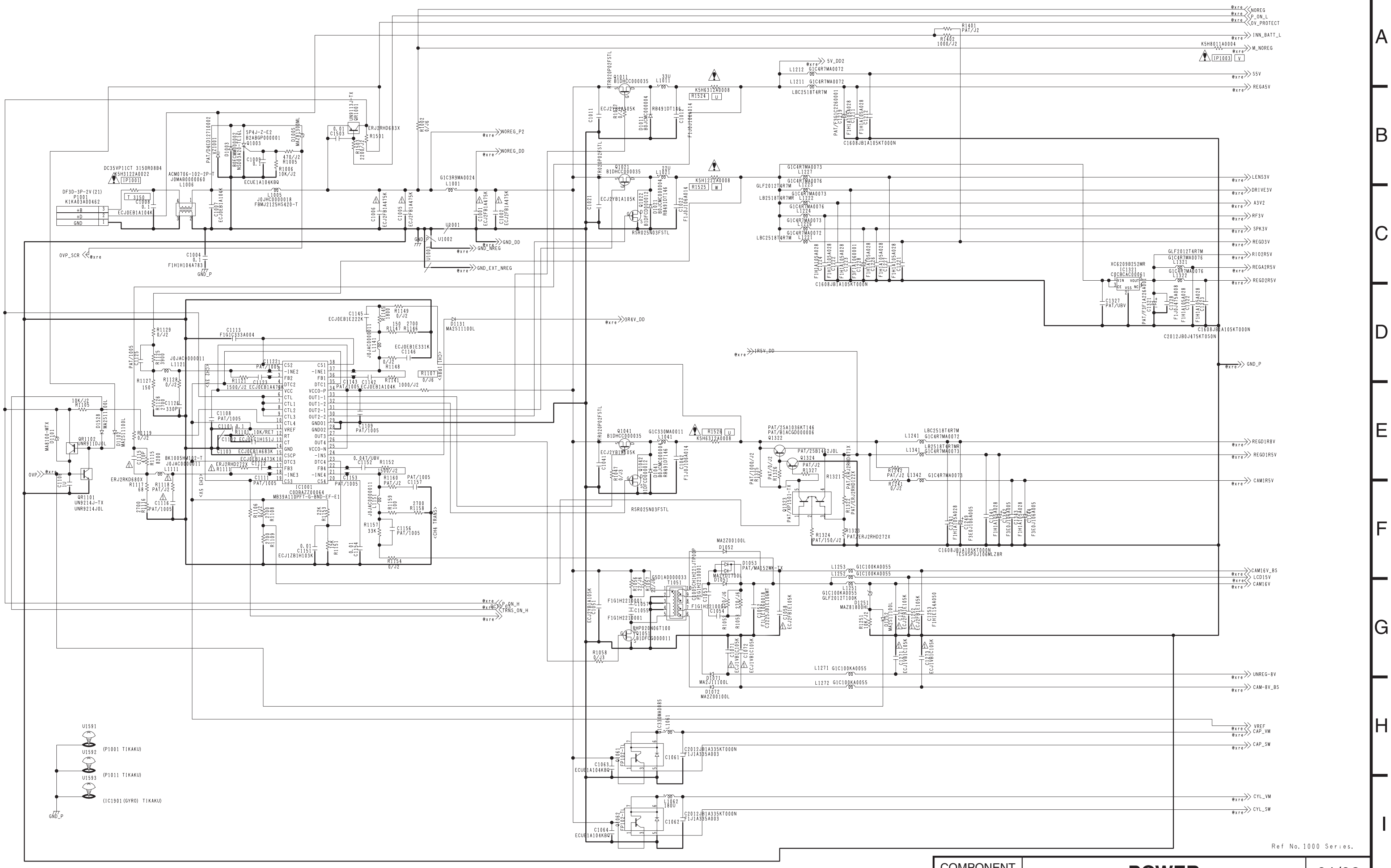
Ref No.6400 Series

COMPONENT NAME	R_SIDE	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP06F68A	KR6A0050 (2/2)	
	SCM021	

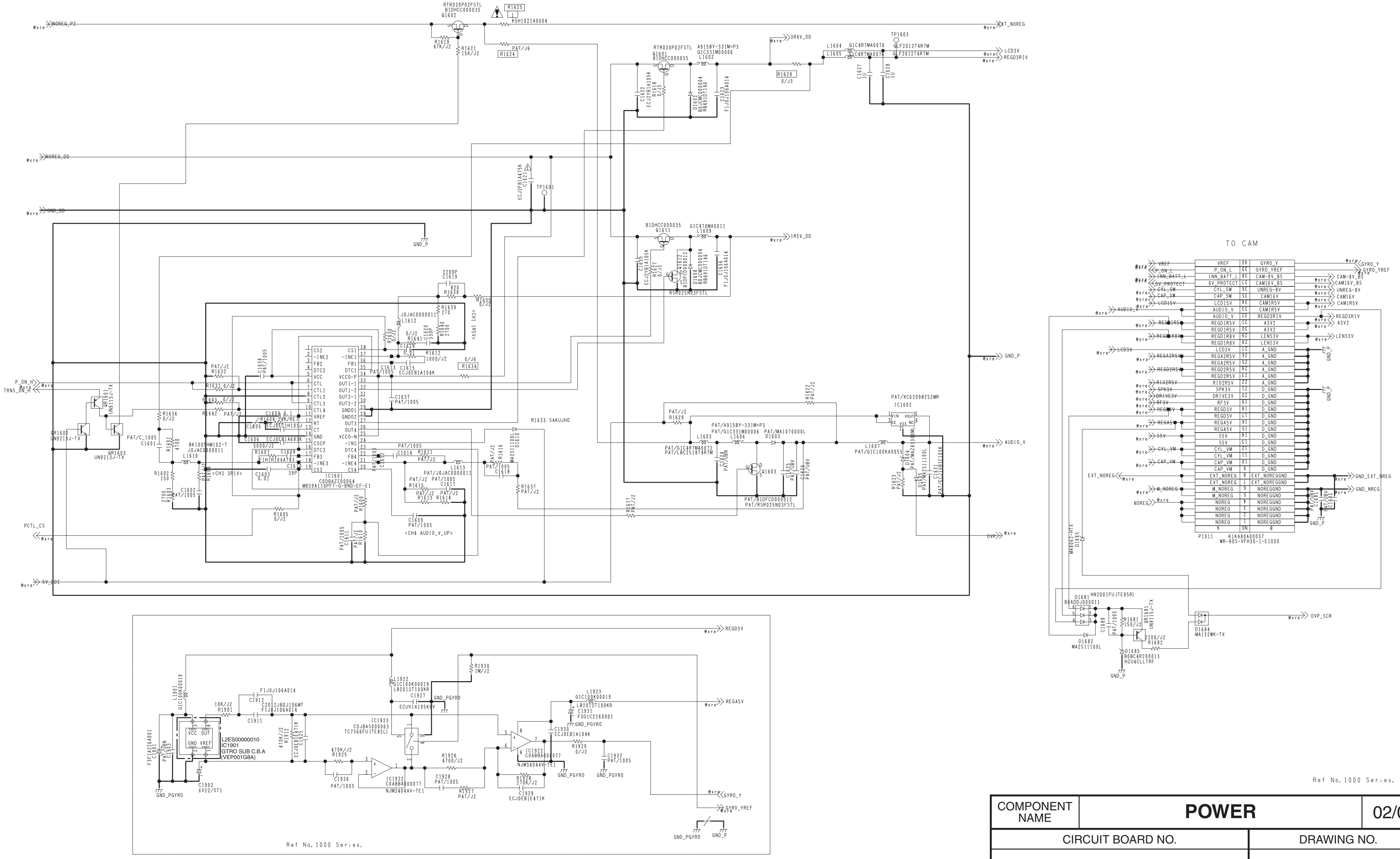

NOREG
P_ON_L
OV_PROTECT
INN_BATT_L
K5H8011A0004
M_NOREG
IP1003
V
S5V
REGA5V
5V_DD2
NOREG_P2
NOREG_DD
LENS3V
DRIVE3V
A3V2
RF3V
SPK3V
REGD3V
RIO2R5V
REGA2R5V
REGD2R5V
C1608JB1A105KT000N
GND_P
GND_NREG
GND_DD
GND_EXT_NREG
OVP_SCR
3R4V_DD
1R5V_DD
REGD1R8V
REGD1R5V
CAM1R5V
CAM16V_BS
LCD15V
CAM16V
UNREG-8V
CAM-8V_BS
VREF
CAP_VM
CAP_SW
CYL_VM
CYL_SW
P_ON_H
TRNS_ON_H
OVP
IC1001
C0DBAZZ00064
MB39A110PFT-G-BND-EF-E1
IP1001
P1001
K1KA03A00462
+B
+D
GND
U1591
(P1001 TIKAKU)
U1592
(P1011 TIKAKU)
U1593
(IC1901(GYRO) TIKAKU)
Ref No.1000 Series.

COMPONENT NAME	POWER		01/02
CIRCUIT BOARD NO.		DRAWING NO.	
VEP01952A		KR1A0057 (1/2)	
		SCM018	

IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

⚠ 警 告

⚠印の部品は安全上重要な部品です。
交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。

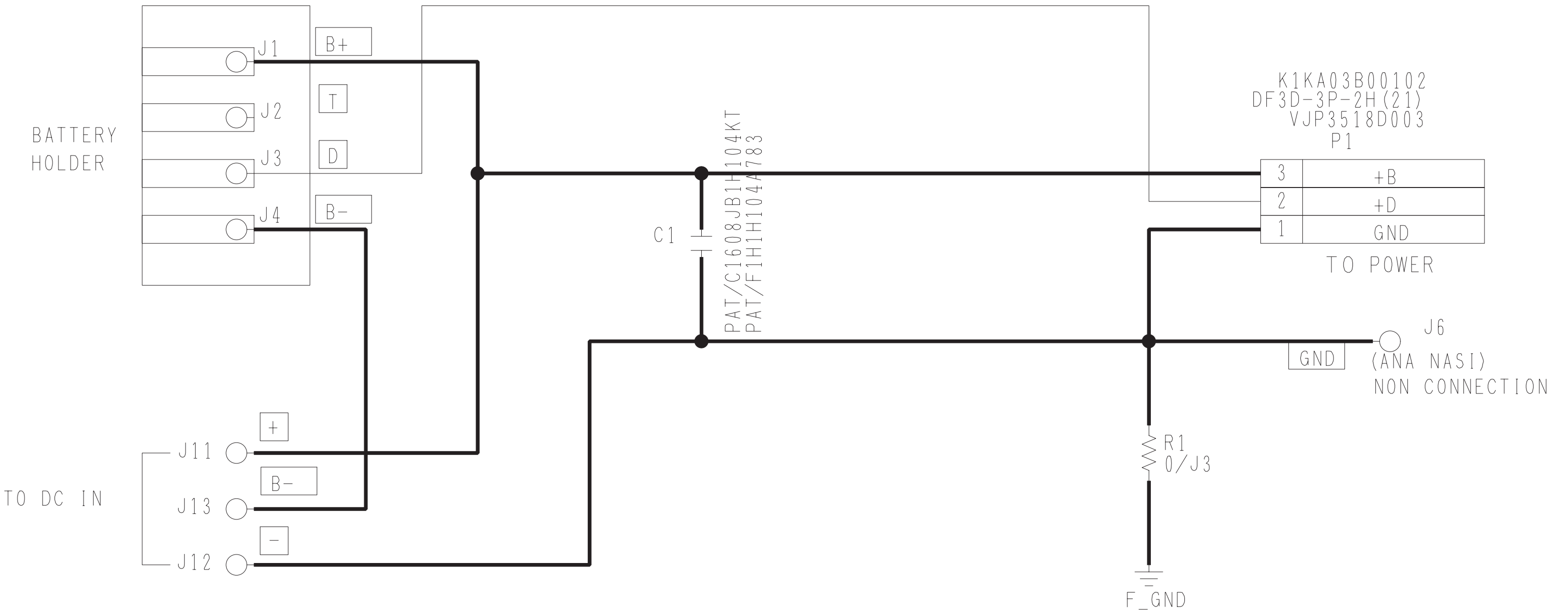

NOREG_P2
EXT_NOREG
NOREG_DD
GND_DD
GND_P
P_ON_H
TRNS_ON_H
PCTL_CS
5V_DD2
3R4V_DD
LCD3V
REGD3R1V
1R5V_DD
AUDIO_V
OVP
RTR020P02FSTL
B1DHCC000035
Q1602
K5H1021A0004
R1625
Q1601
Q1611
L1602
L1604
L1605
L1609
TP1601
TP1603
IC1601
C0DBAZZ00064
MB39A110PFT-G-BND-EF-E1
IC1602
PAT/XC6209B252MR
<CH3 3R1V>
<CH4 AUDIO_V_UP>
R1633 SAKUJHO
QR1601
QR1602
QR1603
UN9213J-TX
TO CAM
P1011
K1KA80A00037
WR-80S-VFH30-1-E1000
GYRO_Y
GYRO_YREF
CAM-8V_BS
CAM16V_BS
UNREG-8V
CAM16V
CAM1R5V
REGD3R1V
A3V2
LENS3V
GND_EXT_NREG
GND_NREG
EXT_NOREG
M_NOREG
NOREG
OVP_SCR
D1681
HN2D01FU(TE85R)
D1684
MA132WK-TX
D1685
B0BC4R200013
REGD3V
REGA5V
IC1901
L2ES00000010
GTRO SUB C.B.A
(VEP001G8A)
IC1923
C0JBAS000063
TC7S66FU(TE85L)
IC1922
C0ABBA000077
NJM3404AV-TE1
GND_PGYRO
Ref No. 1000 Series.

IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

⚠ 警 告

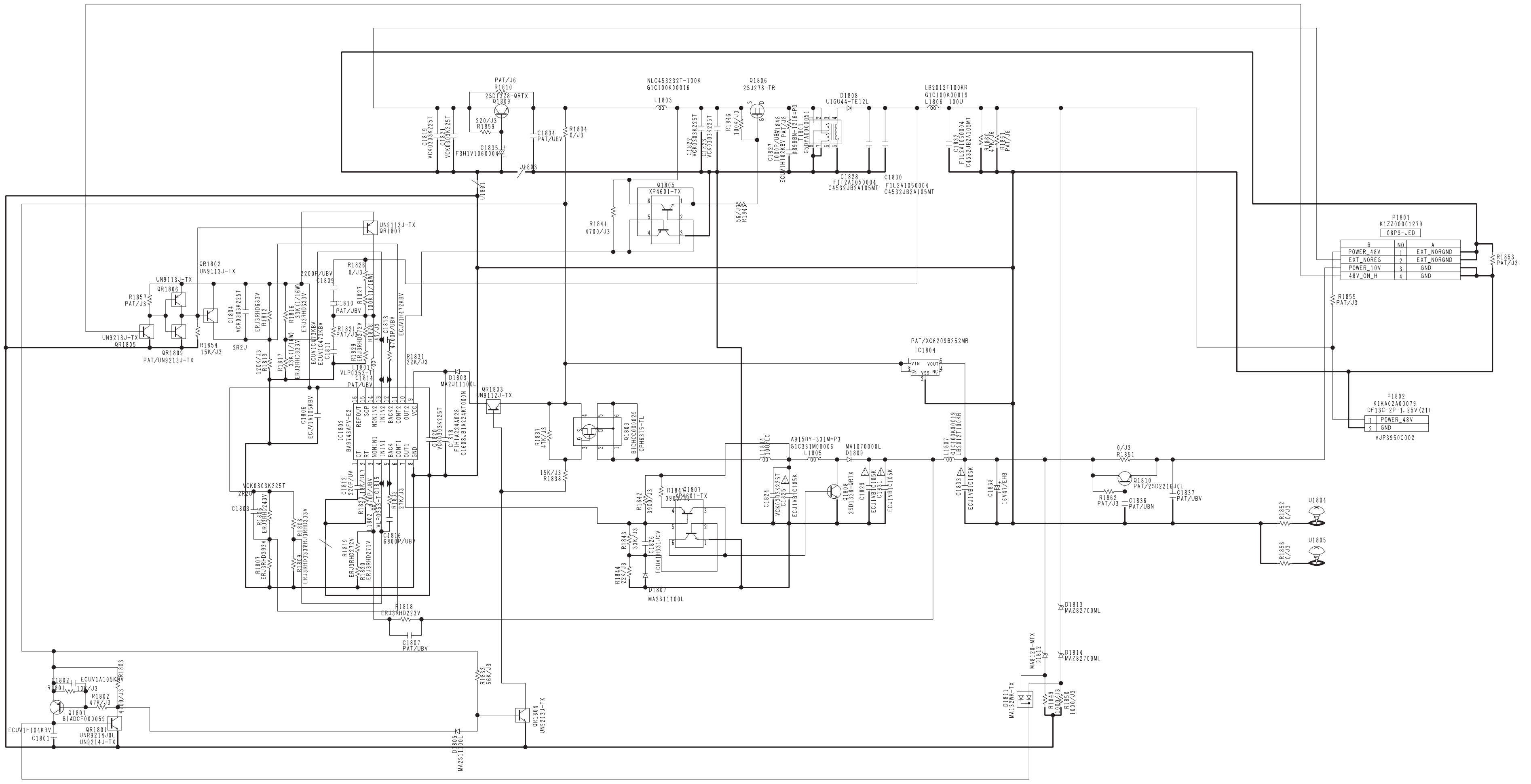
⚠印の部品は安全上重要な部品です。
交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。

COMPONENT NAME	POWER	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP01952A	KR1A0057 (2/2)	
	SCM019	


BATTERY
HOLDER
J1
J2
J3
J4
B+
T
D
B-
C1
PAT/C1608JB1H104KT
PAT/F1H1H104A783
K1KA03B00102
DF3D-3P-2H(21)
VJP3518D003
P1
3
2
1
+B
+D
GND
TO POWER
J6
GND
(ANA NASI)
NON CONNECTION
R1
0/J3
F_GND
TO DC IN
J11
J13
J12
+
B-
-

PAT=PATTERN ONLY
Ref No. Series.

COMPONENT NAME	**BATTERY**		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP01953A		KR1A0047 (1/1)	
		SCM028	


PAT/J6
R1810
2SD1328-QRTX
Q1809
220/J3
R1859
C1819
VCK0303K225T
C1821
VCK0303K225T
C1834
PAT/UBV
C1835
F3H1V1060004
R1804
0/J3
U1803
U1801
NLC453232T-100K
G1C100K00016
L1803
C1822
VCK0303K225T
C1823
VCK0303K225T
Q1806
2SJ278-TR
R1846
100K/J3
C1827
1000P/UBV
ECUV1H102KBV
R1848
PAT/J8
#898BN-1216=P3
T1801
G5DYA0000051
D1808
U1GU44-TE12L
C1828
F1L2A1050004
C4532JB2A105MT
C1830
F1L2A1050004
C4532JB2A105MT
LB2012T100KR
G1C100K00019
L1806 100U
C1832
F1L2A1050004
C4532JB2A105MT
R1860
47K/J6
R1861
PAT/J6
Q1805
XP4601-TX
R1841
4700/J3
56/J3
R1845
UN9113J-TX
QR1807
QR1802
UN9113J-TX
UN9113J-TX
QR1806
R1857
PAT/J3
UN9213J-TX
QR1805
QR1809
PAT/UN9213J-TX
R1854
15K/J3
2R2U
C1804
VCK0303K225T
ERJ3RHD683V
R1812
R1816
33K(1/16W)
ERJ3RHD333V
120K/J3
R1813
R1817
33K(1/16W)
ERJ3RHD333V
2200P/UBV
C1809
C1810
PAT/UBV
ECUV1C473KBV
ECUV1C473KBV
C1811
R1826
0/J3
R1827
100K(1/16W)
R1821
PAT/J3
R1828
47/J3
R1829
ERJ3RHD272V
C1813
4700P/UBV
ECUV1H472KBV
L1801
VLP0353-T
C1814
PAT/UBV
R1831
22K/J3
D1803
MA2J11100L
QR1803
UN9112J-TX
C1806
ECUV1A105KBV
IC1802
BA9743AFV-E2
REFOUT
SCP
NONIN2
ININ2
BACK2
CONT2
OUT2
VCC
CT
RT
NONIN1
ININ1
BACK
CONT1
OUT1
GND
1
2
3
4
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6
7
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9
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11
12
13
14
15
16
C1820
VCK0303K225T
C1818
F1H1A224A028
C1608JB1A224KT000N
VCK0303K225T
2R2U
C1803
R1806
ERJ3RHD243V
R1808
ERJ3RHD333V
R1807
ERJ3RHD393V
R1809
ERJ3RHD333V
C1812
220P/UV
R1830
18K/RE7
470P/UBV
C1815
R1832
27K/J3
L1802
VLP0353-T
C1816
6800P/UBV
R1819
ERJ3RHD272V
R1820
ERJ3RHD271V
R1818
ERJ3RHD223V
C1807
PAT/UBV
R1837
47K/J3
Q1803
B1DHCC000029
CPH6315-TL
S
G
D
15K/J3
R1838
R1842
3900/J3
R1847
3900/J3
Q1807
XP4601-TX
R1843
33K/J3
C1826
ECUV1H331JCV
R1844
22K/J3
D1807
MA2S11100L
L1804
10U/LC
A915BY-331M=P3
G1C331M00006
L1805
C1824
VCK0303K225T
C1825
ECJ1VB1C105K
Q1808
2SD1328-QRTX
MA1070000L
D1809
C1829
ECJ1VB1C105K
C1831
ECJ1VB1C105K
PAT/XC6209B252MR
IC1804
VIN
VOUT
CE
VSS
NC
L1807
G1C100K00019
LB2012T100KR
C1833
ECJ1VB1C105K
C1838
16V47/EHB
0/J3
R1851
Q1810
PAT/2SD2216J0L
R1862
PAT/J3
C1836
PAT/UBN
C1837
PAT/UBV
R1852
0/J3
U1804
R1856
0/J3
U1805
P1801
K1ZZ00001279
08PS-JED
B
NO
A
POWER_48V
EXT_NOREG
POWER_10V
48V_ON_H
EXT_NORGND
EXT_NORGND
GND
GND
R1853
PAT/J3
R1855
PAT/J3
P1802
K1KA02A00079
DF13C-2P-1.25V(21)
POWER_48V
GND
VJP3950C002
D1813
MAZ82700ML
D1814
MAZ82700ML
MA8120-MTX
D1812
D1811
MA132WK-TX
R1849
1000/J3
R1850
1000/J3
R1803
4700/J3
C1802
ECUV1A105KBV
R1801
10K/J3
R1802
47K/J3
Q1801
B1ADCF000059
QR1801
UNR9214J0L
UN9214J-TX
ECUV1H104KBV
C1801
R1833
56K/J3
D1805
MA2S11100L
QR1804
UN9213J-TX
A
B
C
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I
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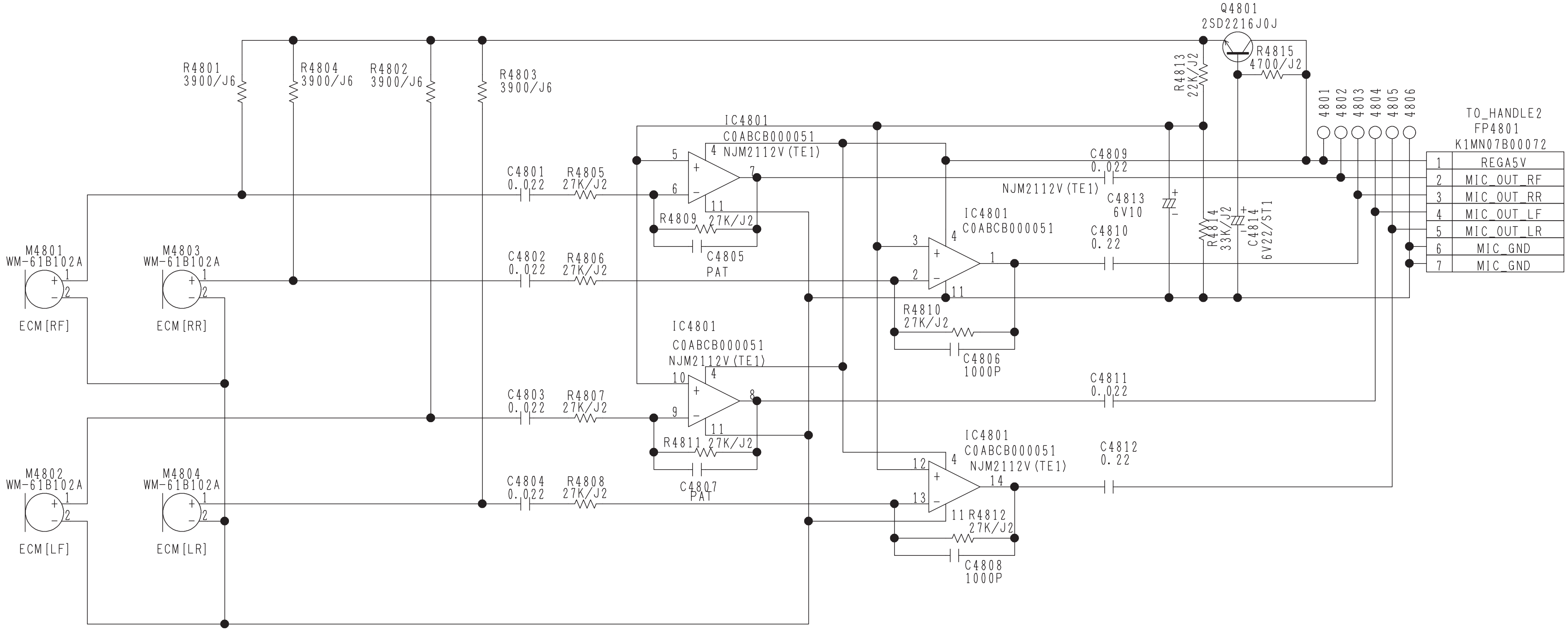
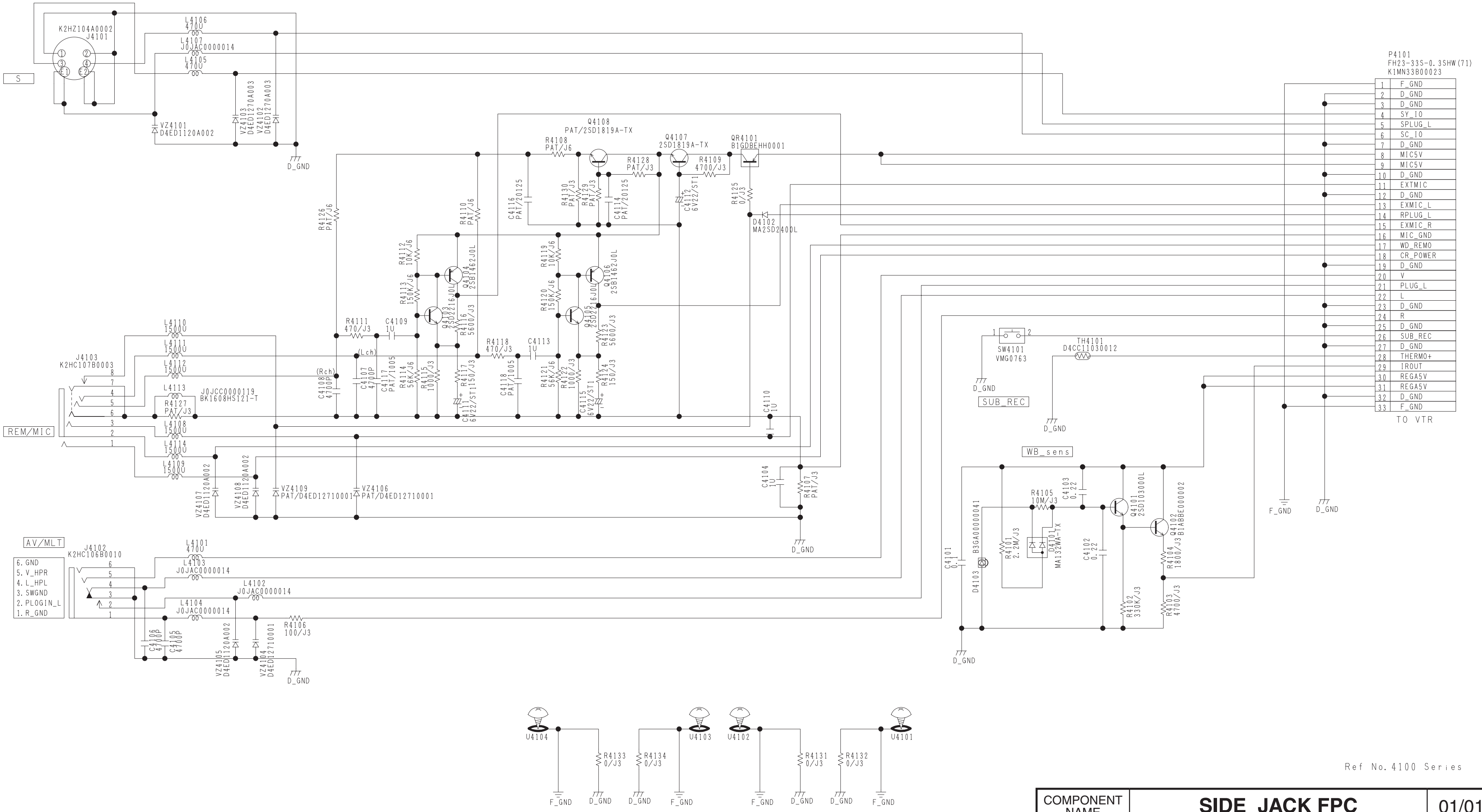
PAT=PATTERN ONLY
Ref No.1800 Series.

COMPONENT NAME	POWER		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP01956A		KR1A0054 (1/1)	
		SCM042	


Q4801
2SD2216J0J
R4801
3900/J6
R4804
3900/J6
R4802
3900/J6
R4803
3900/J6
R4813
22K/J2
R4815
4700/J2
IC4801
C0ABCB000051
NJM2112V(TE1)
4801
4802
4803
4804
4805
4806
TO_HANDLE2
FP4801
K1MN07B00072
1 REGA5V
2 MIC_OUT_RF
3 MIC_OUT_RR
4 MIC_OUT_LF
5 MIC_OUT_LR
6 MIC_GND
7 MIC_GND
C4809
0.022
C4801
0.022
R4805
27K/J2
NJM2112V(TE1)
C4813
6V10
IC4801
C0ABCB000051
R4809
27K/J2
C4805
PAT
R4814
33K/J2
C4814
6V22/ST1
C4810
0.22
M4801
WM-61B102A
ECM[RF]
M4803
WM-61B102A
ECM[RR]
C4802
0.022
R4806
27K/J2
R4810
27K/J2
C4806
1000P
IC4801
C0ABCB000051
NJM2112V(TE1)
C4803
0.022
R4807
27K/J2
C4811
0.022
R4811
27K/J2
C4807
PAT
IC4801
C0ABCB000051
NJM2112V(TE1)
C4812
0.22
M4802
WM-61B102A
ECM[LF]
M4804
WM-61B102A
ECM[LR]
C4804
0.022
R4808
27K/J2
R4812
27K/J2
C4808
1000P

Ref No.4800 Series.

COMPONENT NAME	MIC	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04828A	KR4L33 (1/1)	
	SCM032	


S
K2HZ104A0002
J4101
L4106
470U
L4107
J0JAC0000014
L4105
470U
VZ4101
D4ED1120A002
VZ4103
D4ED1270A003
VZ4102
D4ED1270A003
D_GND
Q4108
PAT/2SD1819A-TX
R4108
PAT/J6
Q4107
2SD1819A-TX
R4128
PAT/J3
R4109
4700/J3
QR4101
B1GDBEHH0001
R4126
PAT/J6
R4110
PAT/J6
C4116
PAT/20125
R4130
PAT/J3
R4129
PAT/J3
C4114
PAT/20125
C4112
6V22/ST1
R4125
0/J3
D4102
MA2SD2400L
R4112
10K/J6
Q4104
2SB1462J0L
R4113
150K/J6
Q4103
2SD2216J0L
R4116
5600/J3
R4119
10K/J6
Q4106
2SB1462J0L
R4120
150K/J6
Q4105
2SD2216J0L
R4123
5600/J3
R4111
470/J3
C4109
1U
R4118
470/J3
C4113
1U
(Lch)
(Rch)
C4108
4700P
C4107
4700P
C4117
PAT/1005
R4114
56K/J6
R4115
1000/J3
R4117
1150/J3
C4111
6V22/ST1
C4118
PAT/1005
R4121
56K/J6
R4122
1000/J3
C4115
6V22/ST1
R4124
150/J3
C4110
1U
J4103
K2HC107B0003
L4110
1500U
L4111
1500U
L4112
1500U
L4113
J0JCC0000119
BK1608HS121-T
R4127
PAT/J3
L4108
1500U
L4114
1500U
L4109
1500U
REM/MIC
VZ4107
D4ED1120A002
VZ4108
D4ED1120A002
VZ4109
PAT/D4ED12710001
VZ4106
PAT/D4ED12710001
C4104
1U
R4107
PAT/J3
D_GND
AV/MLT
J4102
K2HC106B0010
6. GND
5. V_HPR
4. L_HPL
3. SWGND
2. PLOGIN_L
1. R_GND
L4101
470U
L4103
J0JAC0000014
L4102
J0JAC0000014
L4104
J0JAC0000014
R4106
100/J3
C4106
4700P
C4105
4700P
VZ4105
D4ED1120A002
VZ4104
D4ED12710001
D_GND
P4101
FH23-33S-0.3SHW(71)
K1MN33B00023
1 F_GND
2 D_GND
3 D_GND
4 SY_IO
5 SPLUG_L
6 SC_IO
7 D_GND
8 MIC5V
9 MIC5V
10 D_GND
11 EXTMIC
12 D_GND
13 EXMIC_L
14 RPLUG_L
15 EXMIC_R
16 MIC_GND
17 WD_REMO
18 CR_POWER
19 D_GND
20 V
21 PLUG_L
22 L
23 D_GND
24 R
25 D_GND
26 SUB_REC
27 D_GND
28 THERMO+
29 IROUT
30 REGA5V
31 REGA5V
32 D_GND
33 F_GND
TO VTR
SW4101
VMG0763
D_GND
SUB_REC
TH4101
D4CC11030012
D_GND
WB_sens
R4105
10M/J3
C4103
0.22
Q4101
2SD103000L
Q4102
B1ABBE000002
C4101
0.1
D4103
B3GA00000041
R4101
2.2M/J3
D4101
MA132WA-TX
C4102
0.22
R4104
1800/J3
R4102
330K/J3
R4103
4700/J3
D_GND
F_GND
D_GND
U4104
U4103
U4102
U4101
R4133
0/J3
R4134
0/J3
R4131
0/J3
R4132
0/J3
F_GND
D_GND
D_GND
F_GND
F_GND
D_GND
D_GND
F_GND
A
B
C
D
E
F
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J
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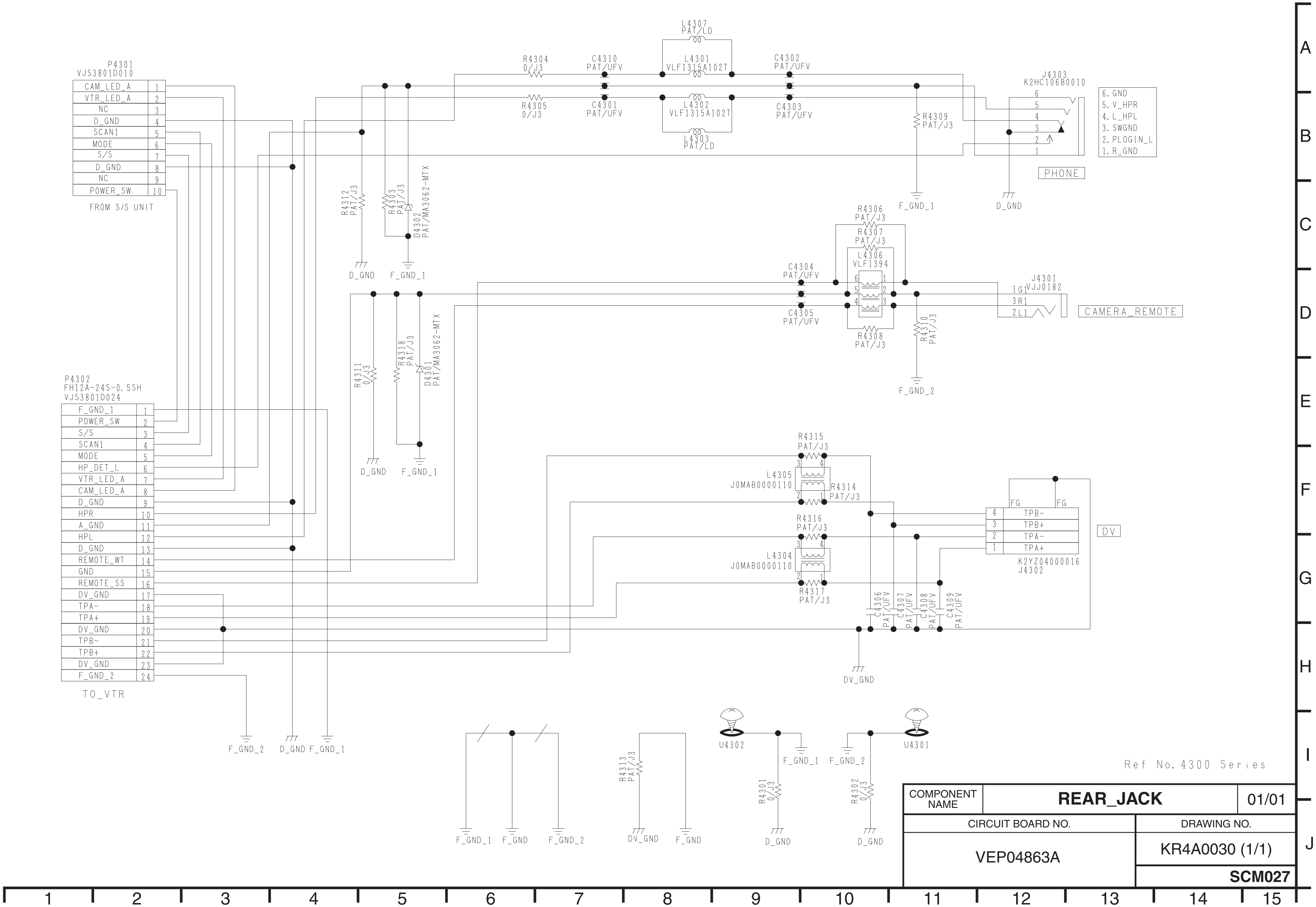
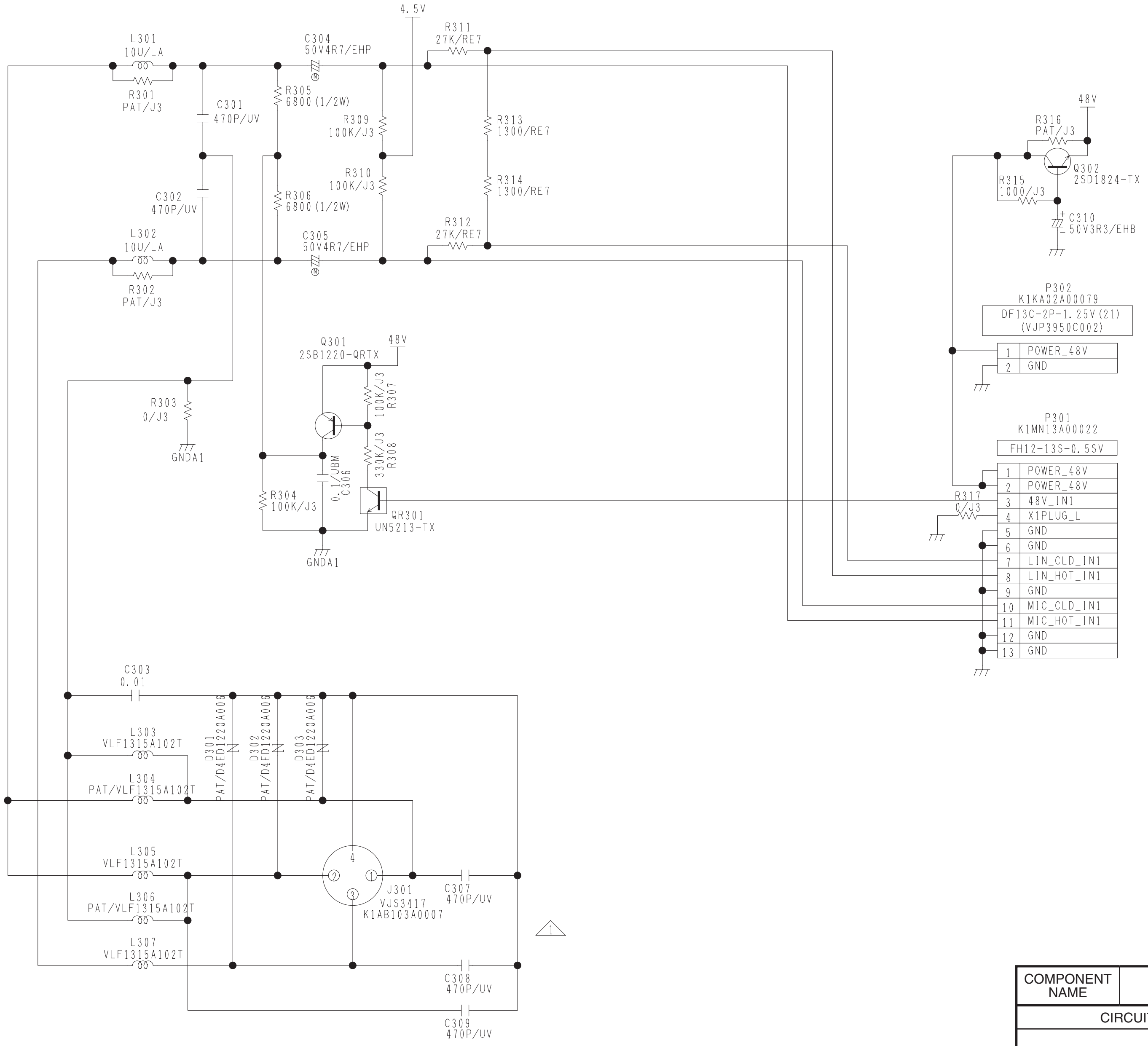
Ref No. 4100 Series

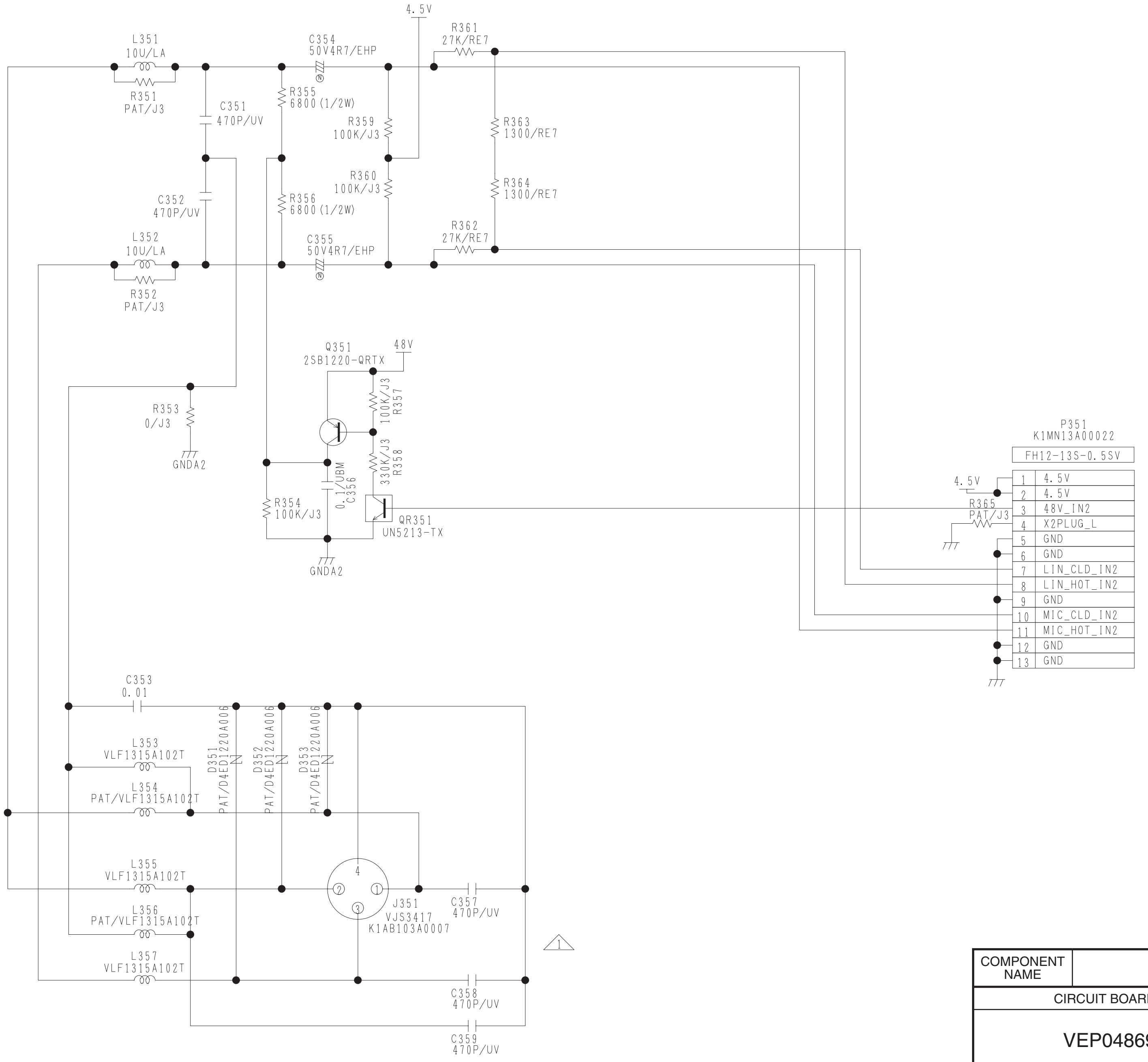
COMPONENT NAME	SIDE_JACK FPC		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP04861A		KR4A0028 (1/1)	
		SCM026	


P4301
VJS3801D010
1 CAM_LED_A
2 VTR_LED_A
3 NC
4 D_GND
5 SCAN1
6 MODE
7 S/S
8 D_GND
9 NC
10 POWER_SW
FROM S/S UNIT
P4302
FH12A-24S-0.5SH
VJS3801D024
1 F_GND_1
2 POWER_SW
3 S/S
4 SCAN1
5 MODE
6 HP_DET_L
7 VTR_LED_A
8 CAM_LED_A
9 D_GND
10 HPR
11 A_GND
12 HPL
13 D_GND
14 REMOTE_WT
15 GND
16 REMOTE_SS
17 DV_GND
18 TPA-
19 TPA+
20 DV_GND
21 TPB-
22 TPB+
23 DV_GND
24 F_GND_2
TO_VTR
L4307 PAT/LD
L4301 VLF1315A102T
L4302 VLF1315A102T
L4303 PAT/LD
R4304 0/J3
R4305 0/J3
C4310 PAT/UFV
C4301 PAT/UFV
C4302 PAT/UFV
C4303 PAT/UFV
R4309 PAT/J3
J4303 K2HC106B0010
6. GND
5. V_HPR
4. L_HPL
3. SWGND
2. PLOGIN_L
1. R_GND
PHONE
R4312 PAT/J3
R4303 PAT/J3
D4302 PAT/MA3062-MTX
D_GND
F_GND_1
R4306 PAT/J3
R4307 PAT/J3
L4306 VLF1394
C4304 PAT/UFV
C4305 PAT/UFV
R4308 PAT/J3
R4310 PAT/J3
J4301 VJJ0182
1G1
3R1
2L1
CAMERA_REMOTE
F_GND_2
R4311 0/J3
R4318 PAT/J3
D4301 PAT/MA3062-MTX
R4315 PAT/J3
L4305 J0MAB0000110
R4314 PAT/J3
R4316 PAT/J3
L4304 J0MAB0000110
R4317 PAT/J3
C4306 PAT/UFV
C4307 PAT/UFV
C4308 PAT/UFV
C4309 PAT/UFV
FG
4 TPB-
3 TPB+
2 TPA-
1 TPA+
K2YZ04000016
J4302
DV
DV_GND
U4302
U4301
R4313 PAT/J3
R4301 0/J3
R4302 0/J3
F_GND
Ref No. 4300 Series

COMPONENT NAME	REAR_JACK	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04863A	KR4A0030 (1/1)	
	SCM027	


4.5V
L301
10U/LA
R301
PAT/J3
C301
470P/UV
C304
50V4R7/EHP
R305
6800(1/2W)
R309
100K/J3
R311
27K/RE7
R313
1300/RE7
R310
100K/J3
R306
6800(1/2W)
R314
1300/RE7
C302
470P/UV
L302
10U/LA
C305
50V4R7/EHP
R312
27K/RE7
R302
PAT/J3
Q301
2SB1220-QRTX
48V
R307
100K/J3
R303
0/J3
GNDA1
R308
330K/J3
C306
0.1/UBM
R304
100K/J3
QR301
UN5213-TX
GNDA1
48V
R316
PAT/J3
Q302
2SD1824-TX
R315
1000/J3
C310
50V3R3/EHB
P302
K1KA02A00079
DF13C-2P-1.25V(21)
(VJP3950C002)
1 POWER_48V
2 GND
GNDA1
P301
K1MN13A00022
FH12-13S-0.5SV
GNDA2
R317
0/J3
1 POWER_48V
2 POWER_48V
3 48V_IN1
4 X1PLUG_L
5 GND
6 GND
7 LIN_CLD_IN1
8 LIN_HOT_IN1
9 GND
10 MIC_CLD_IN1
11 MIC_HOT_IN1
12 GND
13 GND
C303
0.01
L303
VLF1315A102T
D301
PAT/D4ED1220A006
D302
PAT/D4ED1220A006
D303
PAT/D4ED1220A006
L304
PAT/VLF1315A102T
L305
VLF1315A102T
4
2
1
3
J301
VJS3417
K1AB103A0007
C307
470P/UV
L306
PAT/VLF1315A102T
1
L307
VLF1315A102T
C308
470P/UV
C309
470P/UV

COMPONENT NAME	**XLR(INPUT1)**	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP04869A		KR4A0053 (1/2)
		SCM036


4.5V
R361
27K/RE7
L351
10U/LA
C354
50V4R7/EHP
R351
PAT/J3
C351
470P/UV
R355
6800(1/2W)
R359
100K/J3
R363
1300/RE7
R360
100K/J3
R364
1300/RE7
C352
470P/UV
R356
6800(1/2W)
L352
10U/LA
C355
50V4R7/EHP
R362
27K/RE7
R352
PAT/J3
Q351
2SB1220-QRTX
48V
R353
0/J3
GNDA2
100K/J3
R357
330K/J3
R358
0.1/UBM
C356
R354
100K/J3
QR351
UN5213-TX
GNDA2
P351
K1MN13A00022
FH12-13S-0.5SV
4.5V
R365
PAT/J3
1 4.5V
2 4.5V
3 48V_IN2
4 X2PLUG_L
5 GND
6 GND
7 LIN_CLD_IN2
8 LIN_HOT_IN2
9 GND
10 MIC_CLD_IN2
11 MIC_HOT_IN2
12 GND
13 GND
C353
0.01
L353
VLF1315A102T
D351
PAT/D4ED1220A006
D352
PAT/D4ED1220A006
D353
PAT/D4ED1220A006
L354
PAT/VLF1315A102T
L355
VLF1315A102T
4
2
1
3
J351
VJS3417
K1AB103A0007
C357
470P/UV
L356
PAT/VLF1315A102T
1
L357
VLF1315A102T
C358
470P/UV
C359
470P/UV

COMPONENT NAME	XLR(INPUT2)		02/02
CIRCUIT BOARD NO.		DRAWING NO.	
VEP04869A		KR4A0053 (2/2)	
		SCM037	

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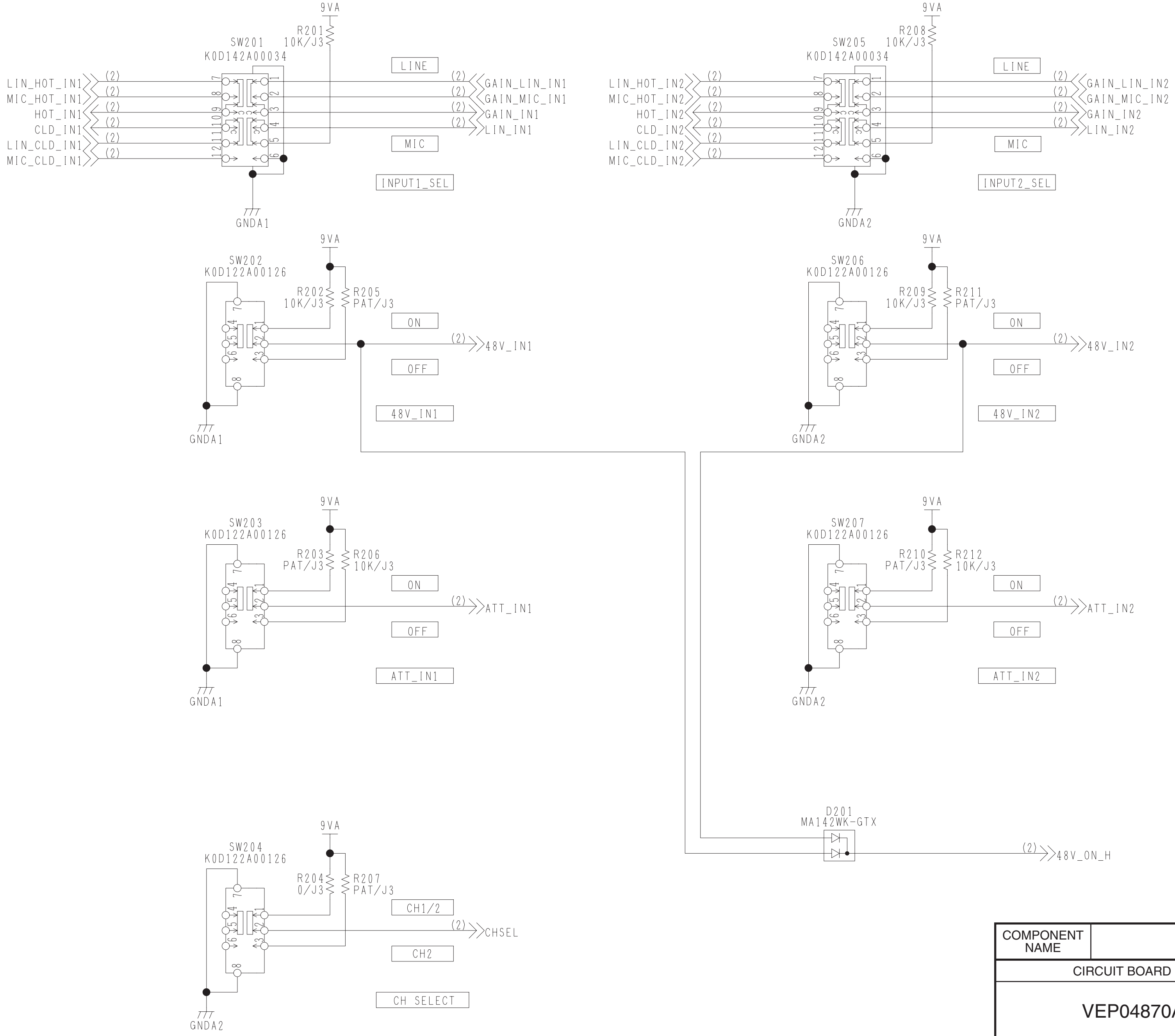
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


9VA
R201
10K/J3
SW201
K0D142A00034
LIN_HOT_IN1
MIC_HOT_IN1
HOT_IN1
CLD_IN1
LIN_CLD_IN1
MIC_CLD_IN1
(2)
LINE
MIC
INPUT1_SEL
GAIN_LIN_IN1
GAIN_MIC_IN1
GAIN_IN1
LIN_IN1
GNDA1
R208
SW205
K0D142A00034
LIN_HOT_IN2
MIC_HOT_IN2
HOT_IN2
CLD_IN2
LIN_CLD_IN2
MIC_CLD_IN2
INPUT2_SEL
GAIN_LIN_IN2
GAIN_MIC_IN2
GAIN_IN2
LIN_IN2
GNDA2
SW202
K0D122A00126
R202
10K/J3
R205
PAT/J3
ON
OFF
48V_IN1
SW206
K0D122A00126
R209
10K/J3
R211
PAT/J3
48V_IN2
SW203
K0D122A00126
R203
PAT/J3
R206
10K/J3
ATT_IN1
SW207
K0D122A00126
R210
PAT/J3
R212
10K/J3
ATT_IN2
SW204
K0D122A00126
R204
0/J3
R207
PAT/J3
CH1/2
CH2
CHSEL
CH SELECT
D201
MA142WK-GTX
48V_ON_H

COMPONENT NAME	SW(SW)	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04870A	KR4A0054 (1/2)	
	SCM038	

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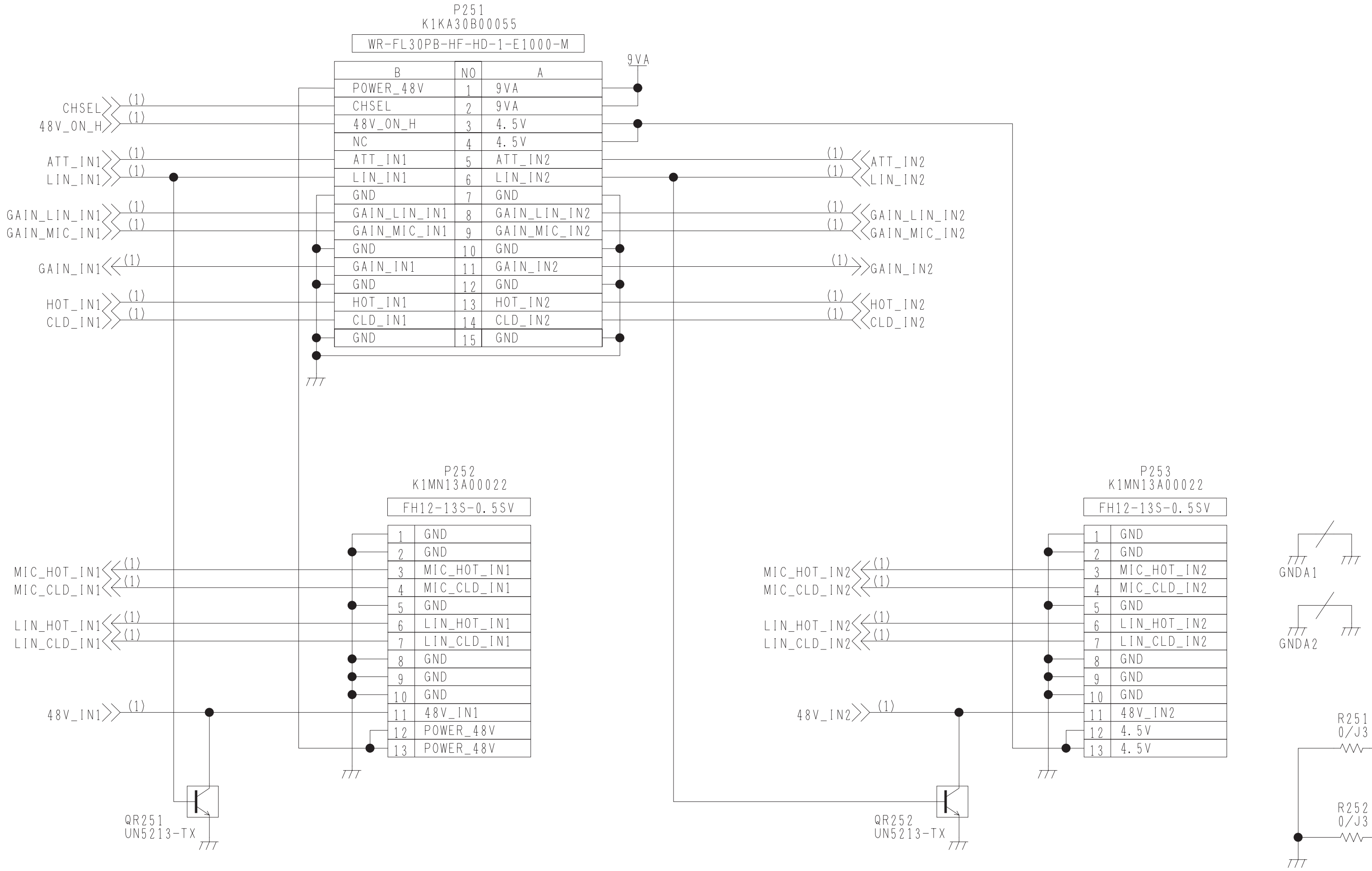
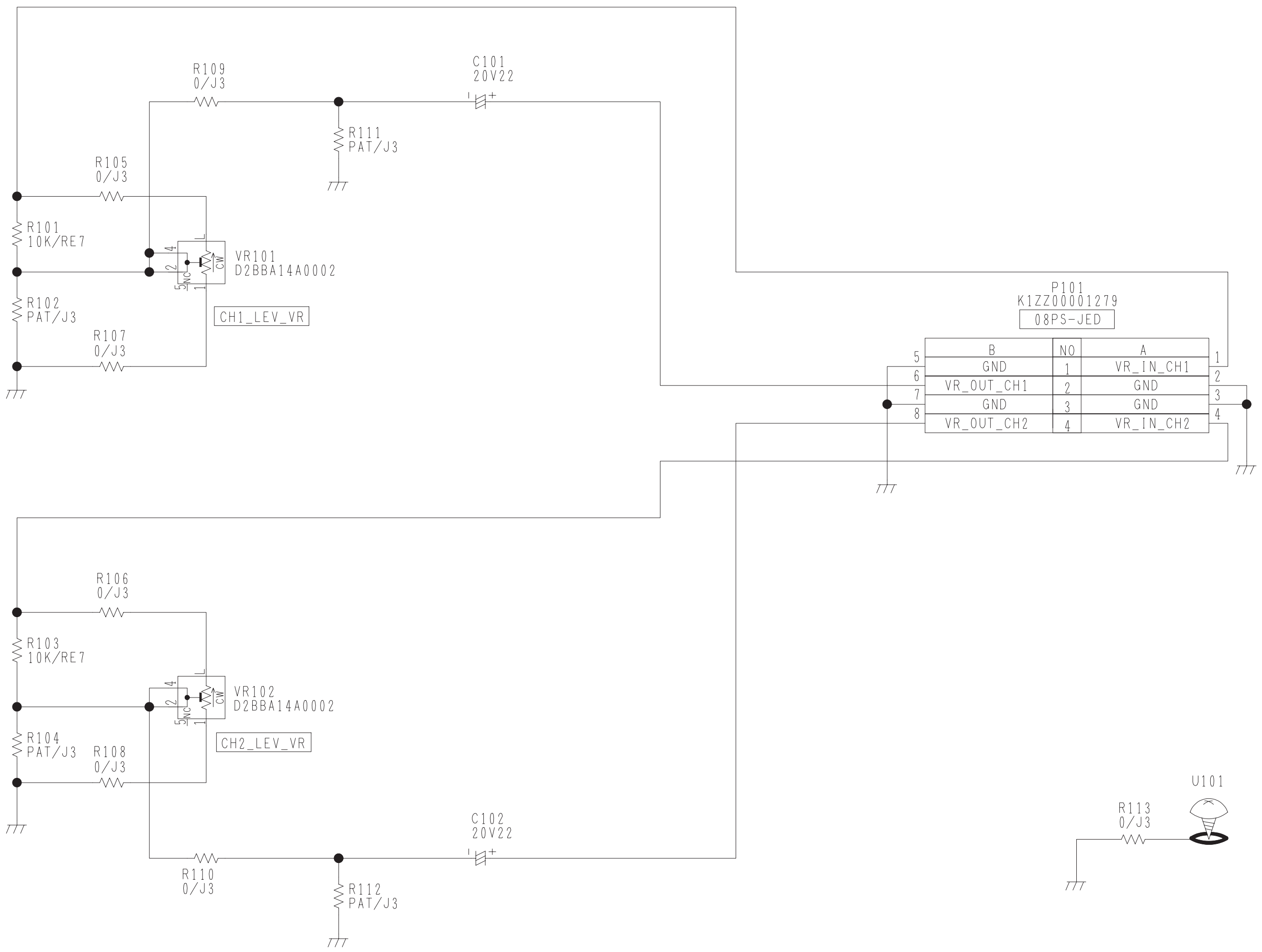

P251
K1KA30B00055
WR-FL30PB-HF-HD-1-E1000-M
9VA
B
NO
A
POWER_48V 1 9VA
CHSEL 2 9VA
48V_ON_H 3 4.5V
NC 4 4.5V
ATT_IN1 5 ATT_IN2
LIN_IN1 6 LIN_IN2
GND 7 GND
GAIN_LIN_IN1 8 GAIN_LIN_IN2
GAIN_MIC_IN1 9 GAIN_MIC_IN2
GND 10 GND
GAIN_IN1 11 GAIN_IN2
GND 12 GND
HOT_IN1 13 HOT_IN2
CLD_IN1 14 CLD_IN2
GND 15 GND
CHSEL (1)
48V_ON_H (1)
ATT_IN1 (1)
LIN_IN1 (1)
GAIN_LIN_IN1 (1)
GAIN_MIC_IN1 (1)
GAIN_IN1 (1)
HOT_IN1 (1)
CLD_IN1 (1)
(1) ATT_IN2
(1) LIN_IN2
(1) GAIN_LIN_IN2
(1) GAIN_MIC_IN2
(1) GAIN_IN2
(1) HOT_IN2
(1) CLD_IN2
P252
K1MN13A00022
FH12-13S-0.5SV
1 GND
2 GND
3 MIC_HOT_IN1
4 MIC_CLD_IN1
5 GND
6 LIN_HOT_IN1
7 LIN_CLD_IN1
8 GND
9 GND
10 GND
11 48V_IN1
12 POWER_48V
13 POWER_48V
MIC_HOT_IN1 (1)
MIC_CLD_IN1 (1)
LIN_HOT_IN1 (1)
LIN_CLD_IN1 (1)
48V_IN1 (1)
QR251
UN5213-TX
P253
K1MN13A00022
FH12-13S-0.5SV
1 GND
2 GND
3 MIC_HOT_IN2
4 MIC_CLD_IN2
5 GND
6 LIN_HOT_IN2
7 LIN_CLD_IN2
8 GND
9 GND
10 GND
11 48V_IN2
12 4.5V
13 4.5V
MIC_HOT_IN2 (1)
MIC_CLD_IN2 (1)
LIN_HOT_IN2 (1)
LIN_CLD_IN2 (1)
48V_IN2 (1)
QR252
UN5213-TX
GNDA1
GNDA2
U251
R251
0/J3
U252
R252
0/J3

COMPONENT NAME	**SW(CN)**	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04870A	KR4A0054 (2/2)	
	SCM039	


R109
0/J3
C101
20V22
R111
PAT/J3
R105
0/J3
R101
10K/RE7
VR101
D2BBA14A0002
R102
PAT/J3
CH1_LEV_VR
R107
0/J3
P101
K1ZZ00001279
08PS-JED
B
NO
A
GND
VR_IN_CH1
VR_OUT_CH1
GND
GND
GND
VR_OUT_CH2
VR_IN_CH2
R106
0/J3
R103
10K/RE7
VR102
D2BBA14A0002
R104
PAT/J3
R108
0/J3
CH2_LEV_VR
C102
20V22
R110
0/J3
R112
PAT/J3
U101
R113
0/J3
NC
CW
L

COMPONENT NAME	VR	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04871A	KR4A0055 (1/1)	
	SCM043	

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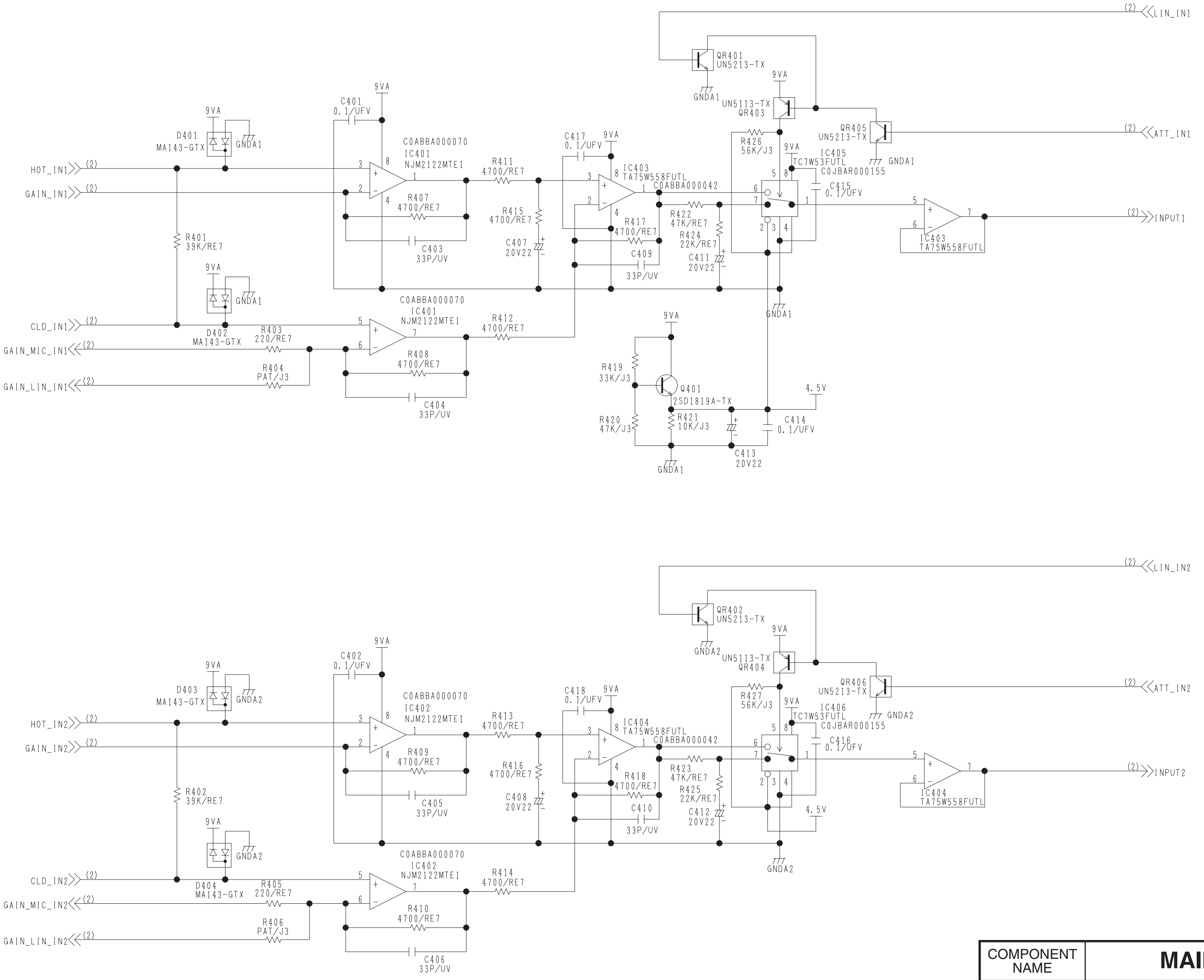
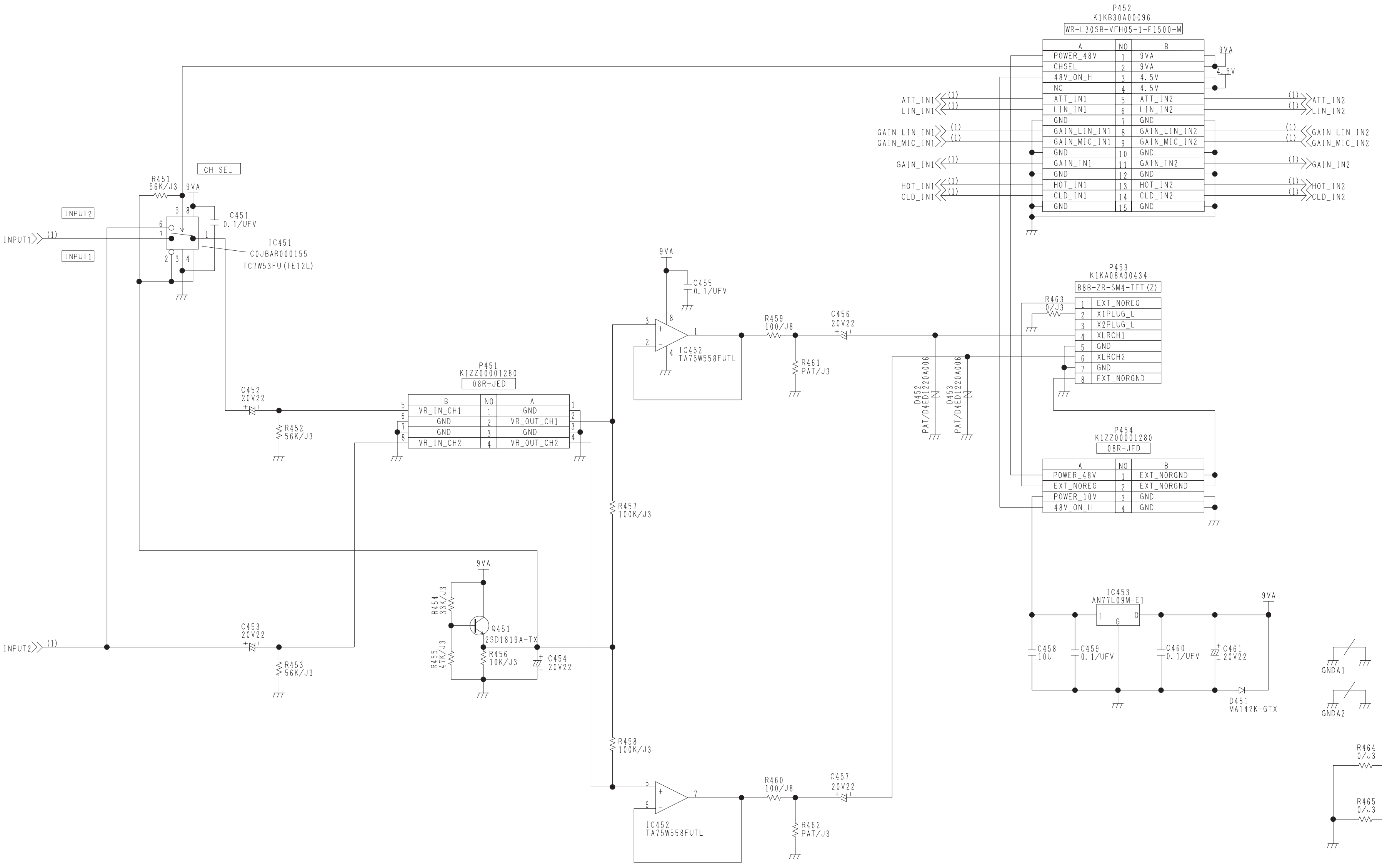

LIN_IN1
QR401 UN5213-TX
GNDA1
9VA
UN5113-TX QR403
QR405 UN5213-TX
ATT_IN1
R426 56K/J3
C401 0.1/UFV
D401 MA143-GTX
C0ABBA000070 IC401 NJM2122MTE1
R411 4700/RE7
C417 0.1/UFV
IC403 TA75W558FUTL C0ABBA000042
IC405 TC7W53FUTL C0JBAR000155
C415 0.1/UFV
HOT_IN1
GAIN_IN1
R407 4700/RE7
R415 4700/RE7
R422 47K/RE7
R417 4700/RE7
R424 22K/RE7
INPUT1
IC403 TA75W558FUTL
R401 39K/RE7
C403 33P/UV
C407 20V22
C409 33P/UV
C411 20V22
D402 MA143-GTX
CLD_IN1
GAIN_MIC_IN1
GAIN_LIN_IN1
R403 220/RE7
R404 PAT/J3
R412 4700/RE7
R408 4700/RE7
C404 33P/UV
R419 33K/J3
Q401 2SD1819A-TX
R420 47K/J3
R421 10K/J3
C413 20V22
C414 0.1/UFV
4.5V
LIN_IN2
QR402 UN5213-TX
GNDA2
UN5113-TX QR404
QR406 UN5213-TX
ATT_IN2
R427 56K/J3
C402 0.1/UFV
D403 MA143-GTX
C0ABBA000070 IC402 NJM2122MTE1
R413 4700/RE7
C418 0.1/UFV
IC404 TA75W558FUTL C0ABBA000042
IC406 TC7W53FUTL C0JBAR000155
C416 0.1/UFV
HOT_IN2
GAIN_IN2
R409 4700/RE7
R416 4700/RE7
R423 47K/RE7
R418 4700/RE7
R425 22K/RE7
INPUT2
IC404 TA75W558FUTL
R402 39K/RE7
C405 33P/UV
C408 20V22
C410 33P/UV
C412 20V22
D404 MA143-GTX
CLD_IN2
GAIN_MIC_IN2
GAIN_LIN_IN2
R405 220/RE7
R406 PAT/J3
R414 4700/RE7
R410 4700/RE7
C406 33P/UV
(2)

COMPONENT NAME	MAIN(GAIN_SEL)	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04875A	KR4A0065 (1/2)	
	SCM040	


P452
K1KB30A00096
WR-L30SB-VFH05-1-E1500-M
A
NO
B
POWER_48V 1 9VA
CHSEL 2 9VA
48V_ON_H 3 4.5V
NC 4 4.5V
ATT_IN1 5 ATT_IN2
LIN_IN1 6 LIN_IN2
GND 7 GND
GAIN_LIN_IN1 8 GAIN_LIN_IN2
GAIN_MIC_IN1 9 GAIN_MIC_IN2
GND 10 GND
GAIN_IN1 11 GAIN_IN2
GND 12 GND
HOT_IN1 13 HOT_IN2
CLD_IN1 14 CLD_IN2
GND 15 GND
9VA
4.5V
ATT_IN1 (1)
LIN_IN1 (1)
GAIN_LIN_IN1 (1)
GAIN_MIC_IN1 (1)
GAIN_IN1 (1)
HOT_IN1 (1)
CLD_IN1 (1)
(1) ATT_IN2
(1) LIN_IN2
(1) GAIN_LIN_IN2
(1) GAIN_MIC_IN2
(1) GAIN_IN2
(1) HOT_IN2
(1) CLD_IN2
CH SEL
R451
56K/J3
9VA
INPUT2
INPUT1
C451
0.1/UFV
IC451
C0JBAR000155
TC7W53FU(TE12L)
INPUT1 (1)
INPUT2 (1)
9VA
C455
0.1/UFV
IC452
TA75W558FUTL
R459
100/J8
C456
20V22
R461
PAT/J3
P453
K1KA08A00434
B8B-ZR-SM4-TFT(Z)
R463
0/J3
1 EXT_NOREG
2 X1PLUG_L
3 X2PLUG_L
4 XLRCH1
5 GND
6 XLRCH2
7 GND
8 EXT_NORGND
D452
PAT/D4ED1220A006
D453
PAT/D4ED1220A006
P451
K1ZZ00001280
08R-JED
B
NO
A
VR_IN_CH1 1 GND
GND 2 VR_OUT_CH1
GND 3 GND
VR_IN_CH2 4 VR_OUT_CH2
C452
20V22
R452
56K/J3
P454
K1ZZ00001280
08R-JED
A
NO
B
POWER_48V 1 EXT_NORGND
EXT_NOREG 2 EXT_NORGND
POWER_10V 3 GND
48V_ON_H 4 GND
R457
100K/J3
9VA
R454
33K/J3
Q451
2SD1819A-TX
R455
47K/J3
R456
10K/J3
C454
20V22
C453
20V22
R453
56K/J3
IC453
AN77L09M-E1
I
G
O
9VA
C458
10U
C459
0.1/UFV
C460
0.1/UFV
C461
20V22
D451
MA142K-GTX
GNDA1
GNDA2
U451
R464
0/J3
U452
R465
0/J3
R458
100K/J3
IC452
TA75W558FUTL
R460
100/J8
C457
20V22
R462
PAT/J3
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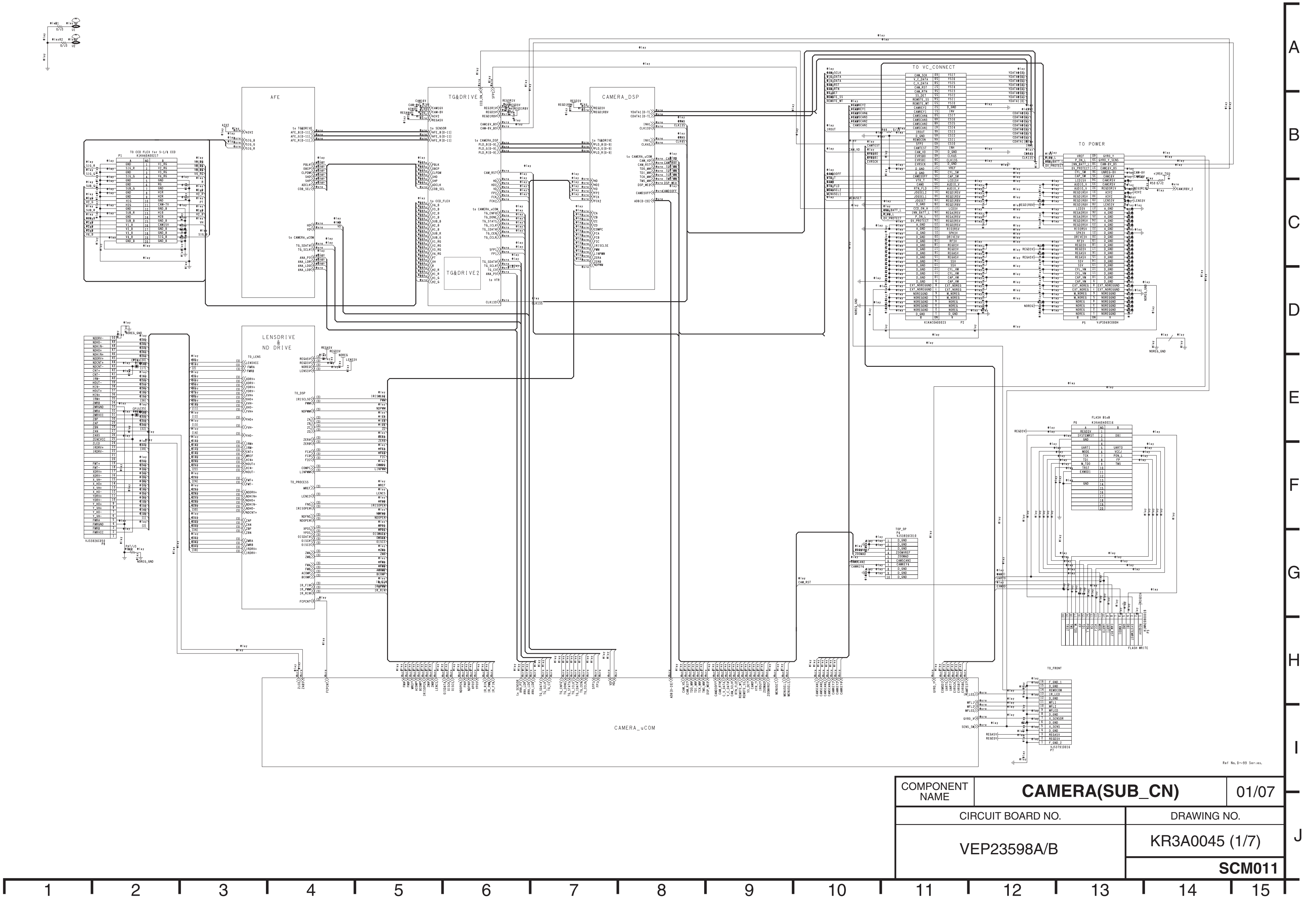
COMPONENT NAME	MAIN(VR_I/O)	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04875A	KR4A0065 (2/2)	
	SCM041	


AFE
TG&DRIVE
TG&DRIVE2
CAMERA_DSP
TO CCD FLEX for S-1/4 CCD
LENSDRIVE & ND DRIVE
TO_LENS
TO_DSP
TO_PROCESS
TO VC_CONNECT
TO POWER
FLASH 8bit
FLASH WRITE
TOP_OP
TO_FRONT
CAMERA_uCOM
Ref No.0~99 Series.
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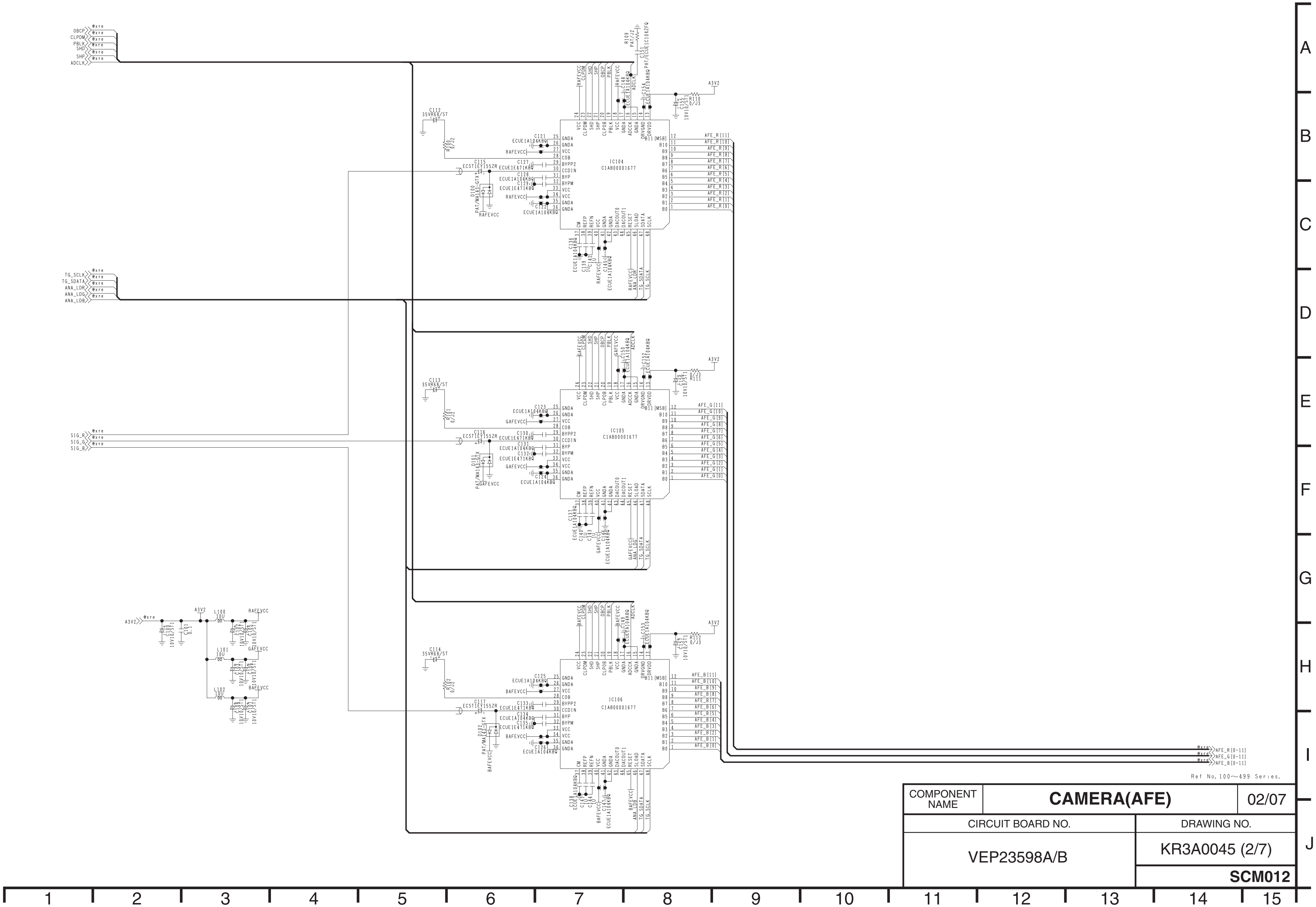
COMPONENT NAME	CAMERA(SUB_CN)		01/07
CIRCUIT BOARD NO.		DRAWING NO.	
VEP23598A/B		KR3A0045 (1/7)	
		SCM011	


OBCP
CLPDM
PBLK
SHD
SHP
ADCLK
TG_SCLK
TG_SDATA
ANA_LDR
ANA_LDG
ANA_LDB
SIG_R
SIG_G
SIG_B
A3V2
RAFEVCC
GAFEVCC
BAFEVCC
L100
L101
L102
IC104
C1AB00001677
IC105
C1AB00001677
IC106
C1AB00001677
C112
35VR68/ST
C113
35VR68/ST
C114
35VR68/ST
C115
ECST1EY155ZR
C116
ECST1EY155ZR
C117
ECST1EY155ZR
D100
D101
D102
R109
R110
R111
R112
AFE_R[11]
AFE_R[0]
AFE_G[11]
AFE_G[0]
AFE_B[11]
AFE_B[0]
AFE_R[0-11]
AFE_G[0-11]
AFE_B[0-11]
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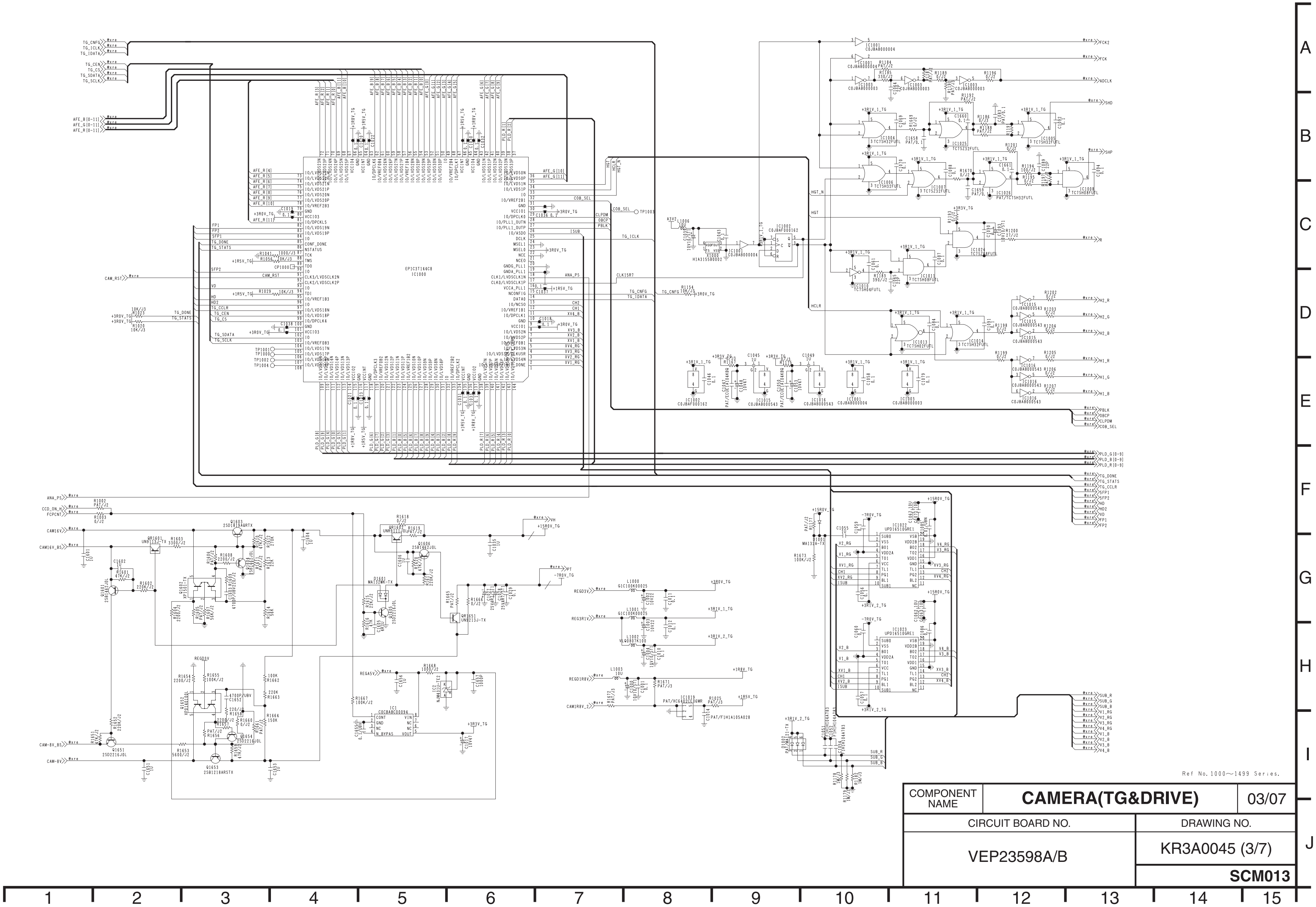
Ref No.100～499 Series.

COMPONENT NAME	CAMERA(AFE)	02/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23598A/B	KR3A0045 (2/7)	
	SCM012	


EP1C3T144C8
IC1000
UPD16510GRE1
IC1022
IC1023
C0CBABC00094
IC1
TG_CNFG
TG_ICLK
TG_IDATA
TG_CEN
TG_CS
TG_SDATA
TG_SCLK
AFE_B[0-11]
AFE_G[0-11]
AFE_R[0-11]
CAM_RST
ANA_PS
CCD_ON_H
FCPCNT
CAM16V
CAM16V_BS
CAM-8V_BS
CAM-8V
REGA5V
REGD3V
REG3R1V
REGD1R8V
CAM1R8V_2
FCK2
FCK
XDCLK
SHD
SHP
R
H2_R
H2_G
H2_B
H1_R
H1_G
H1_B
PBLK
OBCP
CLPDM
COB_SEL
PLD_G[0-9]
PLD_B[0-9]
PLD_R[0-9]
TG_DONE
TG_STATS
TG_CCLR
SFP1
SFP2
HD
HD2
VD
FP1
FP2
SUB_R
SUB_G
SUB_B
V1_RG
V2_RG
V3_RG
V4_RG
V1_B
V2_B
V3_B
V4_B
VH
VL
+15R0V_TG
-7R0V_TG
+3R0V_TG
+3R1V_TG
+3R1V_1_TG
+3R1V_2_TG
+1R8V_TG
+1R5V_TG
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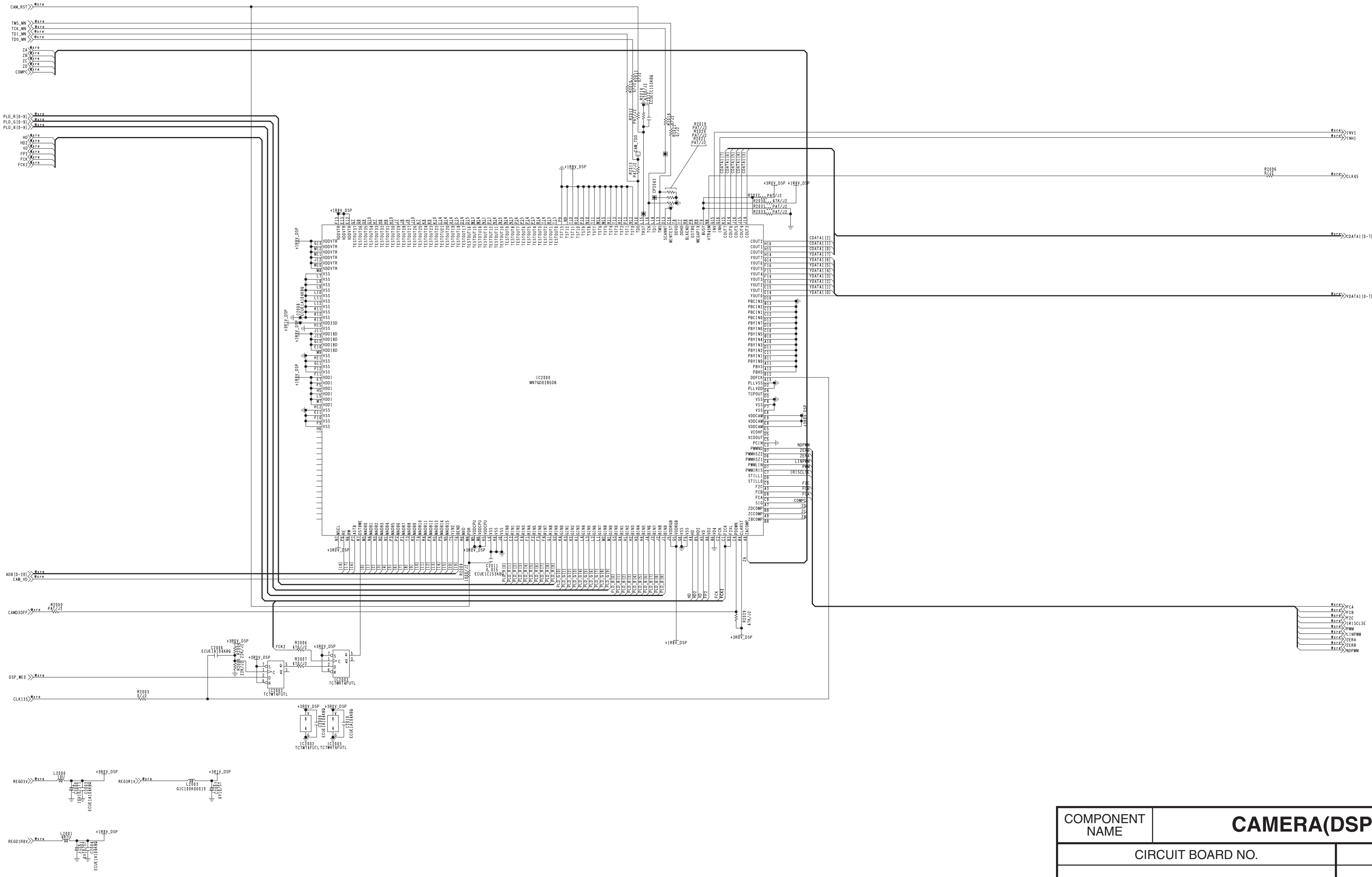
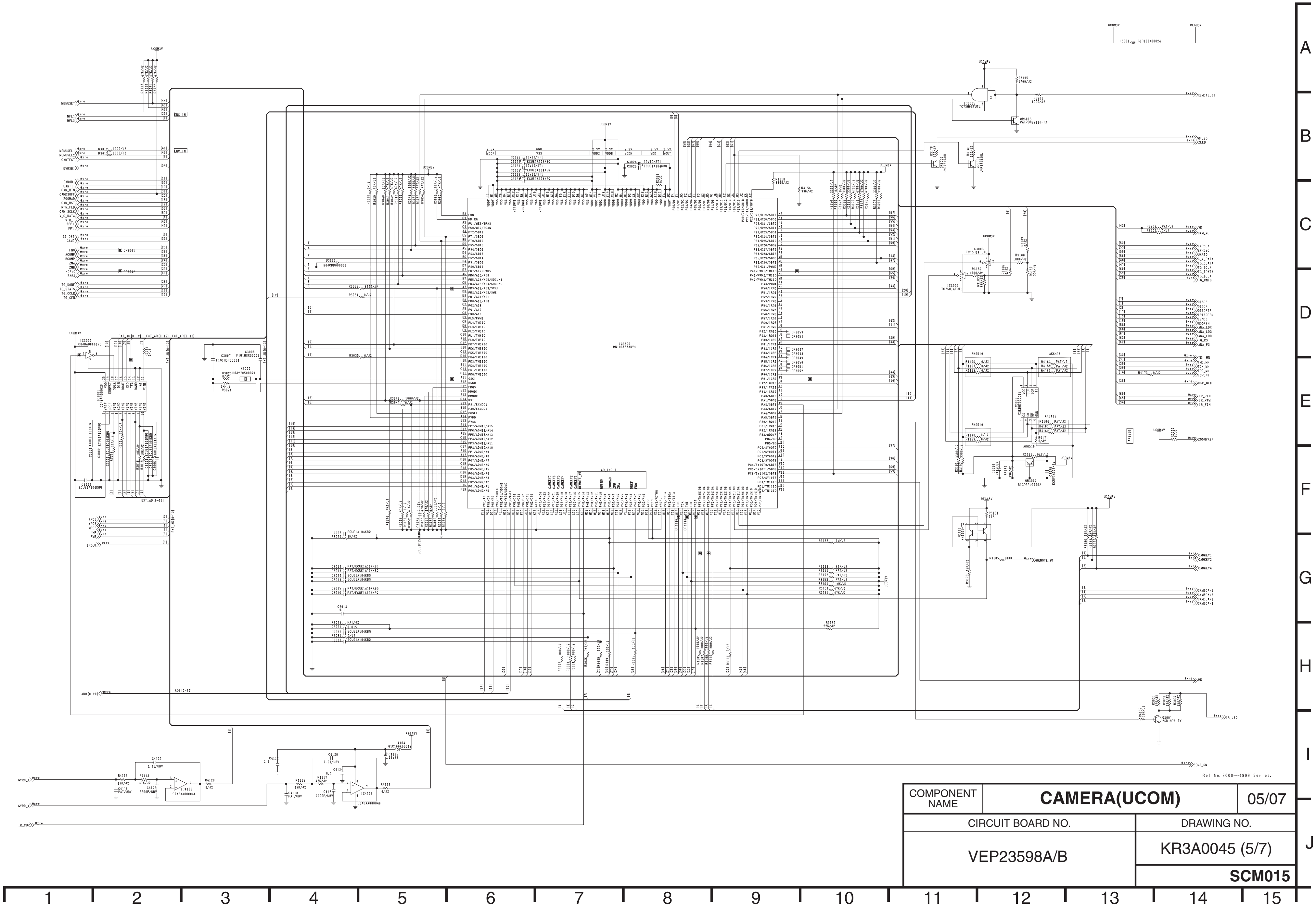
Ref No.1000〜1499 Series.

COMPONENT NAME	CAMERA(TG&DRIVE)	03/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (3/7)
		SCM013


CAM_RST
TMS_MN
TCK_MN
TDI_MN
TDO_MN
ZA
ZB
ZC
ZD
COMPC
PLD_R[0-9]
PLD_G[0-9]
PLD_B[0-9]
HD
HD2
VD
FP2
FCK
FCK2
ADB[0-20]
CAM_VD
CAMD3OFF
R2000
PAT/J2
DSP_WE0
CLK135
R2003
0/J2
C2006
ECUE1A104KBQ
R2004
22K/J2
R2005
22K/J2
FCK2
R2006
470/J2
R2007
470/J2
+3R0V_DSP
IC2002
TC7W74FUTL
IC2003
TC7WH74FUTL
C2009
C2010
ECUE1A104KBQ
REGD3V
L2000
10U
C2010
10V10/ST1
C2003
ECUE1A104KBQ
REG3R1V
L2003
G1C100K00019
C2007
6V10/ST
+3R1V_DSP
REGD1R8V
L2001
4R7U
C2001
6V10/ST
C2004
ECUE1A104KBQ
+1R8V_DSP
IC2000
MN7GD02B5DB
INV1
INH1
CLK45
CDATA1[0-7]
YDATA1[0-7]
FCA
FCB
F2C
IRISCLSE
PWM
LINPWM
ZERA
ZERB
NDPWM
@xre

Ref No. 2000～2999 Series.

COMPONENT NAME	CAMERA(DSP)		04/07
CIRCUIT BOARD NO.		DRAWING NO.	
VEP23598A/B		KR3A0045 (4/7)	
		SCM014	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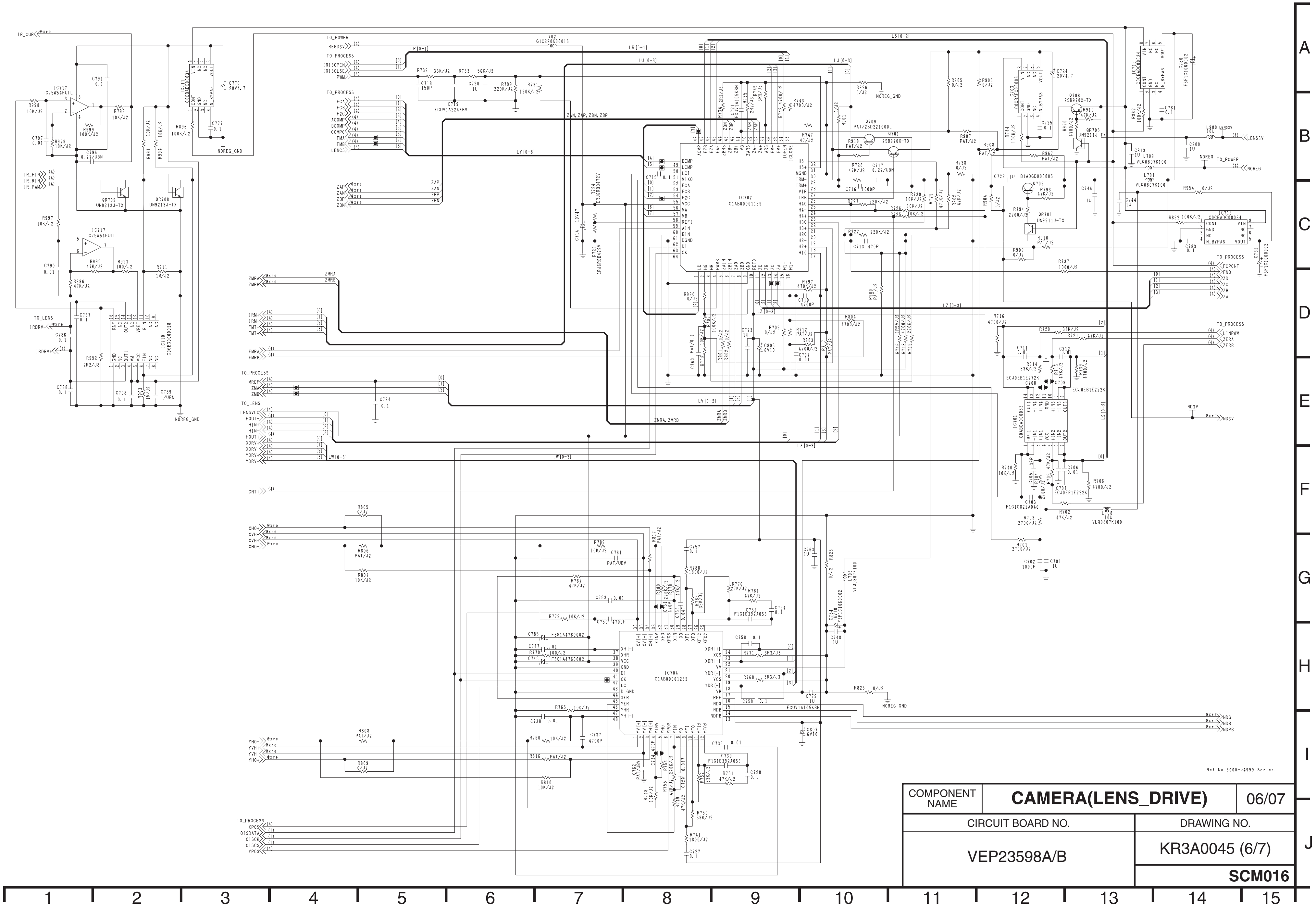
UCOM3V
REG3V
REG5V
IC3500
AD INPUT
REMOTE_SS
WFLED
ZLED
VD
CAM_VD
REMOTE_WT
ZOOMVREF
HD
IR_LED
SENS_SW
GYRO_X
GYRO_Y
IR_CUR
ADB[0-20]
EXT_AD[0-12]
CAMKEY1
CAMKEY2
CAMKEY4
CAMSCAN1
CAMSCAN2
CAMSCAN3
CAMSCAN4
AK6510
AK6416
IC4105
Ref No. 3000~4999 Series.

COMPONENT NAME	CAMERA(UCOM)	05/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23598A/B	KR3A0045 (5/7)	
	SCM015	


IC702
C1AB00001159
IC704
C1AB00001262
IC701
C0ABCA000053
IC710
C0GBG0000028
IC717
TC75W54FUTL
IC711
IC713
C0CBADC00034
IC703
IC719
TO_POWER
REG3V
TO_PROCESS
IRISOPEN
IRISCLSE
PWM
FCA
FCB
F2C
ACOMP
BCOMP
COMPC
FMA
FMB
LENCS
ZAP
ZAN
ZBP
ZBN
ZMRA
ZMRB
IRM+
IRM-
FMT-
FMT+
FMRA
FMRB
MREF
ZMA
ZMB
TO_LENS
LENSVCC
HOUT-
HIN+
HIN-
HOUT+
XDRV+
XDRV-
YDRV+
YDRV-
CNT+
XHO+
XVH-
XVH+
XHO-
YHO-
YVH+
YVH-
YHO+
XPOS
OISDATA
OISCK
OISCS
YPOS
IR_CUR
IR_FIN
IR_RIN
IR_PWM
IRDRV-
IRDRV+
NOREG_GND
LENS3V
NOREG
FCPCNT
FNO
ZD
ZC
ZB
ZA
LINPWM
ZERA
ZERB
ND3V
NDG
NDB
NDPB
Q708
2SB970X-TX
Q709
PAT/2SD221000L
Q701
2SB970X-TX
Q702
QR701
UN9211J-TX
QR705
UN9211J-TX
QR709
UN9213J-TX
QR708
UN9213J-TX
L702
G1C220K00016
L900
L709
VLQ0807K100
L701
VLQ0807K100
L708
VLQ0807K100
L703
VLQ0807K100
LR[0-1]
LU[0-3]
LS[0-2]
LY[0-8]
LZ[0-3]
LV[0-2]
LW[0-3]
LX[0-3]
ZAN, ZAP, ZBN, ZBP
ZMRA, ZMRB
Ref No.3000~4999 Series.
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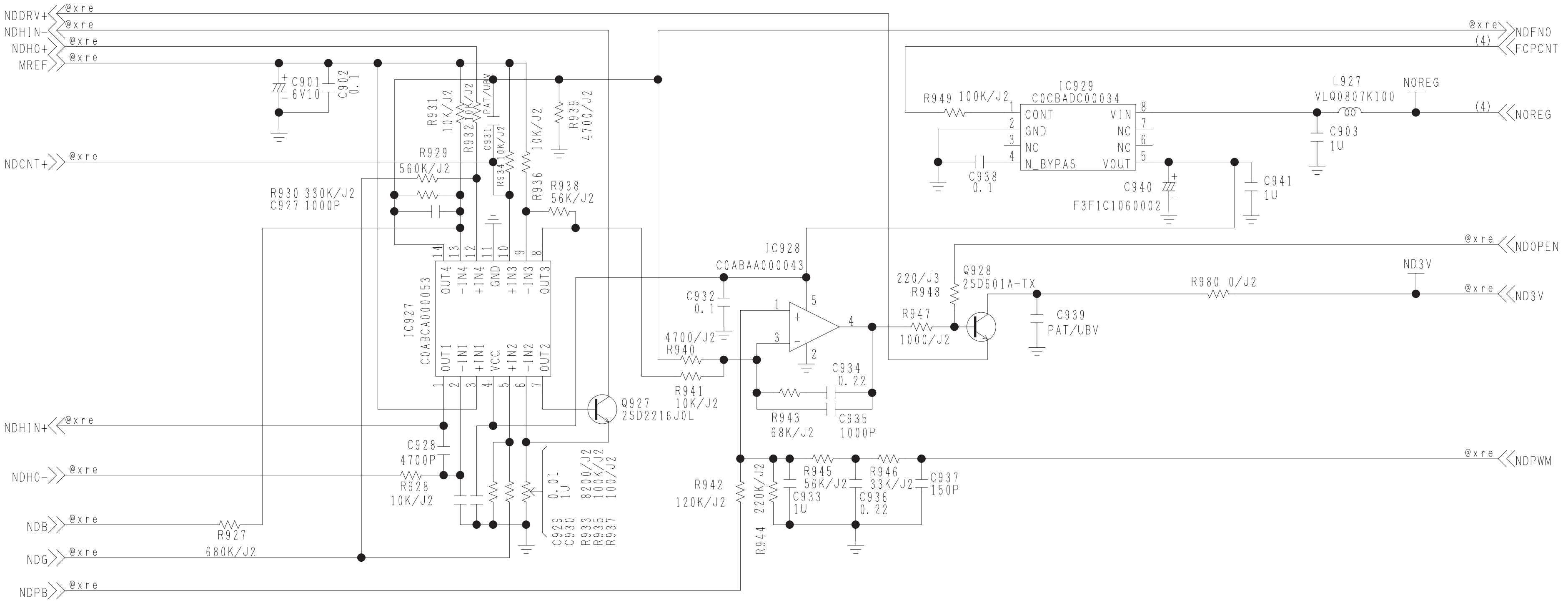
COMPONENT NAME	**CAMERA(LENS_DRIVE)**	06/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP23598A/B		KR3A0045 (6/7)
		SCM016


NDDRV+
NDHIN-
NDHO+
MREF
@xre
C901 6V10
C902 0.1
R931 10K/J2
R932 10K/J2
C931 PAT/UBV
R934 10K/J2
R936 10K/J2
R939 4700/J2
NDCNT+
R929 560K/J2
R930 330K/J2
C927 1000P
R938 56K/J2
IC927 C0ABCA000053
OUT4
-IN4
+IN4
GND
+IN3
-IN3
OUT3
OUT1
-IN1
+IN1
VCC
+IN2
-IN2
OUT2
Q927 2SD2216J0L
NDHIN+
C928 4700P
NDHO-
R928 10K/J2
NDB
R927 680K/J2
NDG
NDPB
C929 0.01
C930 1U
R933 8200/J2
R935 100K/J2
R937 100/J2
IC928 C0ABAA000043
C932 0.1
R940 4700/J2
R941 10K/J2
R943 68K/J2
C934 0.22
C935 1000P
R942 120K/J2
R944 220K/J2
C933 1U
R945 56K/J2
C936 0.22
R946 33K/J2
C937 150P
R947 1000/J2
R948 220/J3
Q928 2SD601A-TX
C939 PAT/UBV
R980 0/J2
ND3V
NDOPEN
NDPWM
NDFNO
(4)
FCPCNT
R949 100K/J2
IC929 C0CBADC00034
CONT
GND
NC
N_BYPAS
VIN
NC
NC
VOUT
C938 0.1
C940 F3F1C1060002
C941 1U
L927 VLQ0807K100
C903 1U
NOREG
A
B
C
D
E
F
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Ref No. 900〜999 Series.

COMPONENT NAME	**CAMERA(ND_DRIVE)**	07/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23598A/B	KR3A0045 (7/7)	
	SCM017	